Vimarsh
"An Endeavour to Share Knowledge"
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श्रेयान्द्रव्यमयाद्यज्ञाज्ज्ञानयज्ञः परन्तप।
सर्वं कर्माखिलं पार्थ ज्ञाने परिसमाप्यते॥

Shrimad Bhagawad Gita, Chapter 4 (33)

"Attaining knowledge is superior to accumulation of all sumptous substances. As all acts finally conclude into wisdom."

CONTENTS

From the Editorial Team

*D*ear Reader,

It is with great pride and sincere privilege that we are writing this message to present Vimarsh, a bi-annual journal published by School of Business Management. Bringing this new issue would not have been possible without the great and much appreciated contributions from the reviewers, editorial and technical team. This issue focusses upon Data Analytics, unethical marketing practices, women empowerment, Digilock and other such pertinent topics.

The robust intellectual support and well-timed research contribution of authors deserve special appreciatory applause. Our team expects similar sort of sincere dedication from the writers in near future. Our utmost thanks to I'M Advertisers for being patient with our consistent editing and formatting issues.

The journal wishes to serve as an authentic platform for showcasing and recognizing the management researchers in India. Each new issue of this journal comes from an extensive process, hence, all essential steps to make it a relevant management publication were taken. We rely on the association of all our reviewers, editors, and contributors to make it an informed, exciting and an apt publication.

We hope to publish more such good research work to keep you informed and updated.

Happy Reading...!!!

Team Vimarsh

Contents

Research Papers

Towards Creating an Ecosystem of Paperless Society: Unveiling Issues and Challenges in Adoption of DigiLocker

Rajan Yadav*

ABSTRACT

DigiLocker, a free document storage and sharing cloud-based platform, is an e-governance project of the Indian government under its Digital India initiative. Though the government has been working to make this initiative successful, a considerable portion of the population is unaware of the service. The few aware of this initiative have yet to opt for a DigiLocker. The present study attempts to identify the issues and challenges that affect the adoption and use of these services designed to create a paperless society. The proposed framework of the study is based on the theoretical underpinning of the Technology Adoption Model (TAM), the Unified Theory of Acceptance and Use of Technology (UTAUT) and the Unified Model of Electronic Government Adoption (UMEGA). The study analysed the data using PLS-SEM, including the moderation impact of select variables. The study identifies various factors that act as motivators and deterrents in adopting and using DigiLocker and provides strong empirical support to frame suitable strategic interventions to sensitize people to improve further usage and adoption.

Keywords: DigiLocker, technology adoption, e-governance, PLS-SEM

INTRODUCTION

The Digital India Programme of the Government of India envisions making India a digitally empowered society and knowledge economy with an emphasis on digital empowerment of citizens by improving e-governance, services-on-demand, and digital infrastructure. Sustained efforts are being made to create collaborative linkages on various citizen-centric projects to transform the traditional service delivery process into a seamlessly integrated process that is available on a real-time basis to all citizens in a transparent, convenient, and secure manner. Over the years, various State and Central Government initiatives have been undertaken to navigate into an era of e-governance. Persistent efforts have been made at government and grassroots levels to improve public service delivery and simplify access to it.

The revolution of information technology has penetrated almost all domains. The increasing use of cloud platforms has provided individuals with ease of access. DigiLocker is one such scheme launched by the government of India, which provides free 1 GB cloud storage to store documents in digital form for the citizens of India. This initiative is a part of the government's Digital India initiative. Documents such as PAN cards, Passports, driving licenses, etc, can be stored in DigiLocker and carried easily by individuals. Therefore, such an initiative by the government of India has provided ease to storing all such documents in the digital locker, which is a cloud-based space for keeping documents in digital form. This initiative is widespread through newspapers and electronic media. The Central Board of Secondary Education has opened 80 lakh digital

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lockers for the students of 10th and 12th class. However, only 2,06,57,736 registered users and 116 issuer organizations of DigiLocker exist to date. Maharashtra has the highest number of registered users of DigiLocker, whereas Delhi ranks 11th, with only 2,73,658 registered users. States like Sikkim, Mizoram and Chhattisgarh have the lowest registrations to date. Therefore, there is a need to study the reasons for not adopting a free service which ensures the safe storage of documents. The present study is therefore aimed to understand the level of awareness of individuals for DigiLocker and to explore the various factors which affect the technology adoption process.

2. Objectives of the study

- To identify the motivators and inhibitors of low adoption and usage of DigiLocker.

- To analyse the impact of social, demographic, economic and geographic variation in the adoption of DigiLocker.

- To propose an empirical, evidence-based strategic framework to improve the adoption and usage of DigiLocker.

- To suggest a few measures to policymakers for widespread awareness of DigiLocker.

3. Literature Review

User Acceptance of Information Technology (UAIT) is a prerequisite for effectively implementing any information technology-based project (AlAwadhi et al., A., 2008). UAIT is the "initial decision made by the individual to interact with the technology" (Venkatesh et al., 2004).

UAIT is followed by adoption, defined as the "direct experience with the technology after an individual has decided to accept it" (Venkatesh et al., 2004).

Most of the research in the information technology acceptance field spans around the path-breaking work of Davis (1989). He proposed the TAM, the most popular model for explaining the intention and behaviour of individuals for technology acceptance. TAM theorizes that two precursors form behavioural intention: perceived usefulness and ease of use (Venkatesh & Davis, 2000). Perceived usefulness is defined as the extent to which a user perceives that technology adoption will enhance his/her performance. On the other hand, perceived ease of use revolves around minimizing efforts for using a technology. It was also proposed that perceived ease of use affects perceived usefulness since the easier a technology is, the more useful it can be (Venkatesh, 2000). The model was parsimonious and has been applied in several studies over the last three decades. It has been used to study faculty members' intention to use learning management systems (LMS) (Fathema et al., 2015), consumer acceptance of e-commerce "" and acceptance of E-learning in developing countries (Tarhini et al., 2017).

Another model that is significant in understanding technology adoption was given by Venkatesh, Morris, Davis, and Davis (2003), named the UTAUT model. It consists of four variables: effort expectancy, performance expectancy, social influence and facilitating conditions. It also captures the moderating influence of gender, age, experience, and voluntariness of use (Im et al., 2011). The UTAUT model rationalises that effort expectancy is significant in users' adoption of information technology. The model explains the 70 per cent variance, which is much higher than TAM. This model is said to be more synthesized and complete since it has merged eight different models discussed in information system literature. These models (TRA, TAM, TPB, the Motivational Model (MM) (Davis et al., 1992), the combined TAM and TPB (C-TAM-TPB) (Taylor et al., 1995), the Model of PC Utilization (MPCU) (Thompson et al., 1991) DOI and Social Cognitive Theory (SCT)) had their origins in sociology and psychology. UTAUT explains how acceptance of information technology differs across various individuals. The moderators used in the model also emphasize the differences in intention to use technology in terms of different age groups and gender.

Though digital services are provided in various countries, there are challenges in usage and adoption. Developing countries, particularly, face a lack of infrastructure, awareness and technical skills required to

adopt ICT (Sivathanu, 2018). The DigiLocker initiative results from cloud computing technology (Khandekar & Devadiga, 2016); it enables the virtual storage of various pictures and documents. This initiative is under the Digital India government scheme. It has helped to provide a digital space wherein citizens of India can store documents issued by the government and other public authorities. A top priority project of the Hon. Narendra Modi Administration, the completed Digital India initiative has specific plans aimed at restructuring the National Informatics Centre. (Petare et al., 2015).

3.1. Conceptual Model

Figure 1 below provides the proposed relationships among the dependent and independent variables. It also shows the moderating variables which have been tested for their contingent effect on the relationships among the constructs. Each relationship (arrow) in the conceptual model represents a hypothesis tested using PLS-SEM.
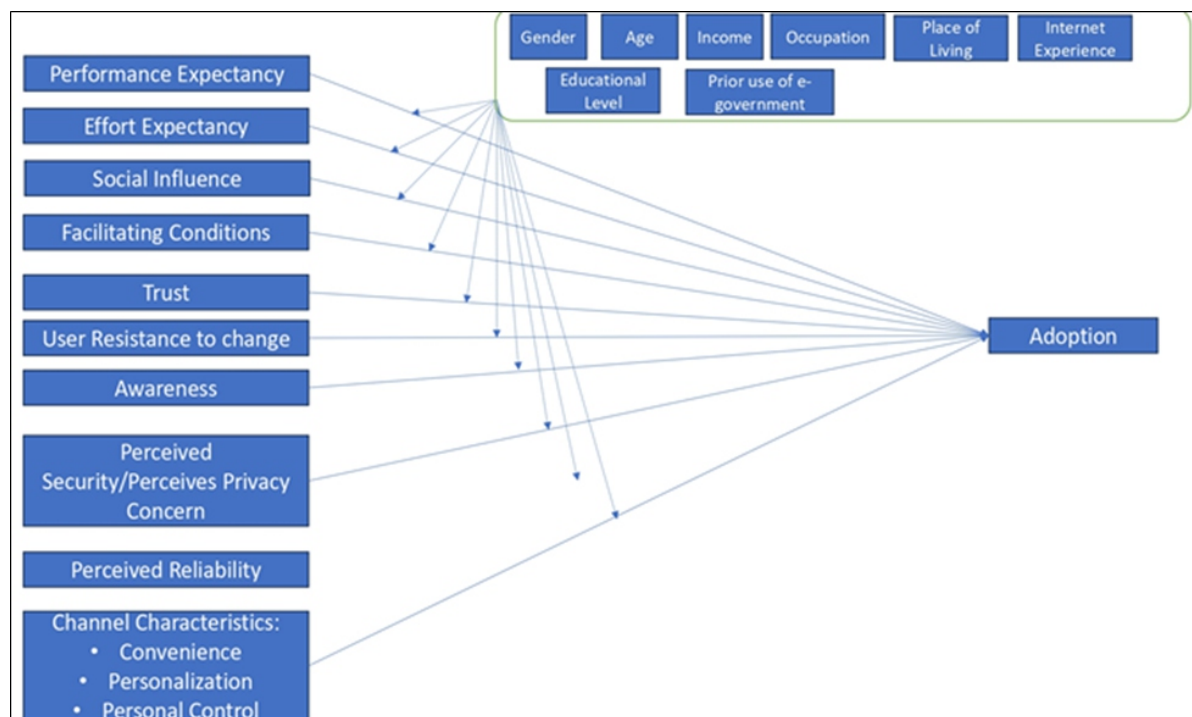
Figure 1 : Conceptual Model

4. Research Methodology

The target population for our study included Indian citizens residing within the country, aged 15 and above, who regularly used essential IT-enabled services. A Google survey form was administered across various social media platforms to collect data to ensure broad distribution and reach within the target audience. The study employs a cross-sectional descriptive research design. We have captured data at a specific time, providing a snapshot of the population's perceptions and behaviours.

This study utilised a non-probability convenience sampling technique to reach respondents easily accessible to the researchers, resulting in a final sample size of 145 participants. We analysed data using Partial Least Squares-Structural Equation Modelling (PLS-SEM), a method suitable for complex analyses with relatively smaller minor samples. Smart-PLS 4 software was employed for analysis, enabling the research team to interpret relationships and draw meaningful insights from the collected data.

5. Data Analysis

5.1. Measurement Instrument

Items were taken from extant research to maintain the validity of the content of the model. These items were modified to adopt the context of the adoption of DigiLocker. The table below displays the constructed items as well as their sources.

Table 1: Construct Items

S. No.	Factors	Citation
1.	Performance Expectancy	(AlHadid et al., 2021) (Sharma et al., 2018)
2.	Effort Expectancy	(AlHadid et al., 2021) (Sharma et al., 2018)
3.	Social Influence	(Ahmad & Khalid, 2017) (AlHadid et al., 2021) (Sharma et al., 2018)
4.	Facilitating Conditions	(AlHadid et al., 2021) (Sharma et al., 2018)
5.	Trust	(Shahzad et al., 2020) (Ahmad & Khalid, 2017) (Venkatesh et al., 2016) (Sharma et al., 2018)
6.	User Resistance to change	(Talukdar et al., 2020)
7.	Perceived Awareness	(Shareef et al., 2010) (Shahzad et al., 2020)
8.	Perceived Security	(Shareef et al., 2010)
9.	Perceived Reliability	(Shahzad et al., 2020)
10.	Channel Characteristics	
	Convenience	(Shahzad et al., 2020) (Venkatesh et al., 2016)
	Personalization	(Shahzad et al., 2020) (Venkatesh et al., 2016) (Chen et al., 2016)
	Personal/Active Control	
11.	Prior use of e-government services	(Hou et al., 2019)
	Intention to use	(Shahzad et al., 2020)

5.2. Model assessment in Smart PLS 4

Each item's construct reliability and validity were assessed to test the measurement model. Cronbach's α, Composite Reliability (CR) and Average Variance Extracted (AVE) were computed to assess the reliability and convergent validity **(Table 2)**. We calculated the Variance Inflation Factor (VIF) to check the multicollinearity between variables. The threshold limit of Cronbach's α is 0 to 1, and values above 0.7 suggest an acceptable level of reliability. In our study, Cronbach's α varies from 0.879 to 0.962, under the threshold limit. The threshold limit of composite reliability is that the value should be greater than 0.7.

In our study, Composite Reliability varies from 0.919 to 0.969, which is under the threshold limit. We computed the AVE test to assess the convergent validity. The threshold limit for AVE is that the value should be greater than 0.5. In our study, AVE ranges from 0.714 to 0.887, under the threshold limit.

The study assessed the multi-collinearity among the constructs in the model using VIF. Many research frameworks based on OLS Regression observe multi-collinearity among two or more constructs demonstrating a linear relationship. In such cases, the values of different path coefficients may be consistent. However, the results may not be robust and reliable due to high VIF values, which indicate high muti-collinearity. A VIF value above 4 is acceptable and an indicator of low multi-collinearity. The study found the VIF values in all the relationships as per the thumb rule i,e. < 4 permitting to proceed further with the analysis.

Our study's VIF values range from 1 to 8.919, indicating varying degrees of multicollinearity between variables. In our study, some values are greater than 5 because the sample size we chose is small, and the variables are homogeneous. Several variables demonstrate high levels of multicollinearity, with PE2 showing the highest VIF at 8.919, followed closely by T5 at 7.987, PE1 at 7.7, T6 at 7.148, FC1 at 7.021, and EE4 at 7.548. A moderate level of correlation is present in several variables, including CC1, CC2, and CC3 (all around 6), A2 (5.381), PE3 (6.855), SI5 (6.034), FC2 (6.211), and T4 (5.411). All interaction terms of construct factors with daily internet usage and education level show VIF values 1, indicating no multicollinearity issues in these relationships and no correlation.

We computed the Heterotrait-Monotrait (HTMT) ratio to assess the discriminant validity. The threshold limit for the HTMT ratio is that values should be below 0.90. In our study, the HTMT values vary from 0.007 to 0.938 **(Table 3)**. To evaluate the model's fit and determine how well the model explains the observed data, we computed the R2 value. If R2 value is greater than 0.50, it indicates strong explanatory power. In our study, the R2 value is 0.801 **(Table 4)**.

Table 2: Composite Reliability

	Cronbach's α	CR (rho_c)	AVE
A	0.936	0.959	0.887
CC	0.948	0.957	0.714
EE	0.962	0.969	0.84
FC	0.879	0.919	0.742
PA	0.923	0.942	0.765
PE	0.949	0.96	0.799
PR	0.934	0.958	0.884
PS	0.939	0.956	0.846
SI	0.934	0.948	0.754
T	0.951	0.961	0.804
UR	0.901	0.93	0.77

Table 3: HTMT Ratios

	A	CC	Daily internet usage	EE	Education Level	FC	PA	PE	PR	PS	SI	T	UR	Education Level x FC	Daily internet usage x PE	Daily internet usage x T	Education Level x UR	Daily internet usage x CC	Daily internet usage x PR	Education Level x EE	Education Level x T	Daily internet usage x FC	Daily internet usage x EE	Education Level x PA	Education Level x SI	Education Level x PE	Daily internet usage x UR	Daily internet usage x SI	Education Level x CC	Daily internet usage x PA	Daily internet usage x PS	Education Level x PS
A																																
CC	0.762																															
Daily internet usage	0.057	0.113																														
EE	0.763	0.862	0.112																													
Education Level	0.045	0.073	0.014	0.081																												
FC	0.089	0.868	0.133	0.946	0.031																											
PA	0.735	0.893	0.115	0.864	0.04	0.855																										
PE	0.857	0.813	0.113	0.839	0.066	0.901	0.808																									
PR	0.739	0.904	0.144	0.81	0.076	0.801	0.902	0.756																								
PS	0.767	0.855	0.154	0.834	0.012	0.87	0.916	0.825	0.333																							
SI	0.776	0.911	0.098	0.882	0.076	0.86	0.935	0.83	0.88	0.885																						
T	0.733	0.864	0.14	0.853	0.053	0.869	0.914	0.879	0.868	0.92	0.886																					
UR	0.818	0.935	0.107	0.886	0.029	0.527	0.998	0.825	0.92	0.941	0.94	0.938																				
Education Level x FC	0.085	0.179	0.056	0.18	0.049	0.224	0.249	0.177	0.146	0.277	0.266	0.199	0.225																			
Daily internet usage x PE	0.2	0.167	0.075	0.129	0.001	0.239	0.245	0.232	0.142	0.214	0.186	0.21	0.233	0.013																		
Daily internet usage x T	0.201	0.077	0.08	0.128	0.024	0.082	0.199	0.091	0.275	0.145	0.159	0.207	0.061	0.805																		
Education Level x UR	0.058	0.11	0.112	0.134	0.194	0.219	0.142	0.102	0.221	0.115	0.095	0.13	0.066	0.013																		
Daily internet usage x CC	0.112	0.053	0.215	0.058	0.089	0.103	0.024	0.199	0.352	0.045	0.064	0.729	0.694	0.69	0.835	-0.018																
Daily internet usage x PR	0.144	0.079	0.08	0.065	0.072	0.108	0.046	0.132	0.1	0.13	0.067	0.094	0.008	0.599	0.057	-0.015	0.892															
Education Level x EE	0.042	0.141	0.117	0.15	0.076	0.381	0.18	0.058	0.121	0.07	0.198	0.2866	0.71	0.013	0.006	0.778	0.057															
Education Level x T	0.046	0.078	0.025	0.164	0.095	0.209	0.067	0.146	0.07	0.125	0.128	0.02	0.079	0.756	0.002	0.842	0.015	0.76														
Daily internet usage x FC	0.15	0.084	0.038	0.128	0.093	0.186	0.199	0.067	0.127	0.156	0.143	0.135	0.263	0.335	0.756	0.004	0.743	0.078	0.05													
Daily internet usage x EE	0.145	0.072	0.141	0.093	0.147	0.115	0.08	0.094	0.04	0.142	0.084	0.135	0.102	0.082	0.755	0.013	0.797	0.055	0.801	0.063												
Education Level x PA	0.099	0.086	0.078	0.122	0.161	0.172	0.115	0.17	0.056	0.161	0.09	0.086	0.118	0.652	0.009	0.823	0.002	0.739	0.725	0	0.007											
Education Level x SI	0.084	0.11	0.29	0.194	0.172	0.261	0.135	0.133	0.113	0.088	0.118	0.674	0.628	0.002	0.027	0.895	0.74	0.805	0.08	0.065	0.81											
Education Level x PE	0.055	0.177	0.254	0.19	0.141	0.254	0.17	0.101	0.101	0.177	0.154	0.148	0.155	0.644	0.05	0.884	0.27	0.789	0.783	0.024	0.799	0.867										
Daily internet usage x UR	0.074	0.083	0.001	0.29	0.138	0.17	0.05	0.042	0.052	0.072	0.381	0.108	0.201	0.778	0.041	0.793	0.074	0.758	0.017	0.696	0.705	0.78										
Daily internet usage x SI	0.182	0.092	0.287	0.088	0.097	0.174	0.093	0.199	0.104	0.266	0.124	0.006	0.281	0.006	0.012	0.027	0.892	0.011	0.8	0.017	0.042	0.052										
Daily internet usage x SI	0.182	0.075	0.255	0.078	0.125	0.145	0.037	0.171	0.076	0.16	0.124	0.074	0.743	0.854	0.894	0.043	0.955	0.057	0.766	0.643	0.042	0.019	0.907									
Education Level x CC	0.027	0.071	0.112	0.15	0.079	0.188	0.187	0.076	0.095	0.088	0.122	0.716	0.067	0.005	0.013	0.797	0.066	0.005	0.045	0.075	0.801	0.719	0.02	0.717								
Daily internet usage x PA	0.142	0.065	0.28	0.076	0.144	0.093	0.155	0.135	0.188	0.033	0.089	0.022	0.107	0.022	0.853	0.853	0.853	0.795	0.765	0.783	0.059	0.023	0.852	0.904	0.02							
Daily internet usage x PS	0.167	0.102	0.077	0.123	0.027	0.155	0.094	0.188	0.122	0.593	0.153	0.016	0.286	0.912	0.764	-0.004	0.907	0.04	0.324	0.741	0.056	0.011	0.856	0.567	0.001	0.876						
Education Level x PS	0.082	0.092	0.02	0.157	0.097	0.186	0.151	0.073	0.113	0.115	0.119	0.1729	0.13	0.025	0.015	0.0606	0.019	0.082	0.746	0.04	0.843	0.746	0.008	0.009	0.536	0.009	0.059					

α**Table 4: R-Squared Values**

	R-square
A	0.801

1.1. Hypothesis testing

To check the significant relationship between variables, we run bootstrapping with 5000 samples. We look at the path coefficient (i.e. P- value) to check for a significant relation between variables. To have a significant relation between values, the p-value should be less than 0.005.

This is illustrated in **Table 5** and **Figure 2**; findings suggest that significant factors help in the Adoption of DigiLocker. We opt for education level and daily internet usage as a key moderator influencing the adoption of DigiLocker.

From the findings, we discovered that effort expectancy, facilitating conditions and performance expectancy significantly impact the adoption of DigiLocker. EE -> A (p value 0.019), **FC -> A** (p value 0) and **PE -> A** (p value 0.003). Furthermore, we also discovered that education level and daily internet usage have not moderately influenced the adoption of DigiLocker.
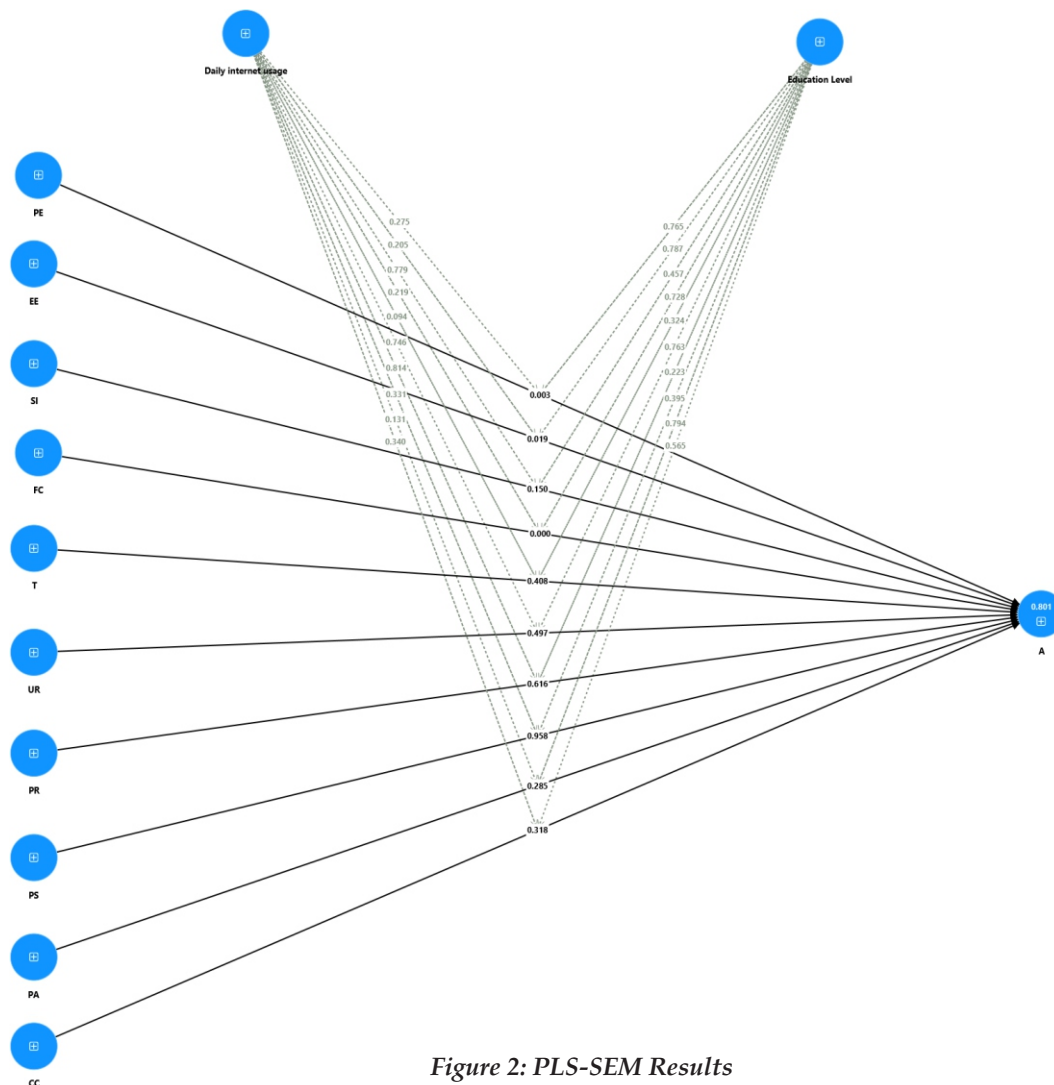
Figure 2: PLS-SEM Results

Table 5: Structural model outcomes

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (|O/STDEV|)	P values
CC -> A	0.148	0.133	0.149	0.999	0.318
Daily internet usage -> A	-0.048	-0.045	0.061	0.776	0.438
EE -> A	-0.308	-0.3	0.131	2.355	0.019
Education Level -> A	-0.027	-0.024	0.068	0.399	0.69
FC -> A	0.594	0.606	0.133	4.478	0
PA -> A	-0.177	-0.188	0.165	1.07	0.285
PE -> A	0.376	0.373	0.126	2.989	0.003
PR -> A	0.093	0.092	0.185	0.502	0.616
PS -> A	0.01	0.011	0.187	0.052	0.958
SI -> A	0.245	0.255	0.17	1.441	0.15
T -> A	-0.135	-0.116	0.163	0.827	0.408
UR -> A	0.124	0.1	0.183	0.679	0.497
Education Level x FC -> A	0.051	0.03	0.146	0.348	0.728
Daily Internet usage x PE -> A	0.141	0.125	0.129	1.092	0.275
Daily Internet usage x T -> A	-0.307	-0.288	0.184	1.674	0.094
Education Level x UR -> A	0.056	0.103	0.186	0.302	0.763
Daily Internet usage x CC -> A	0.16	0.167	0.168	0.955	0.34
Daily Internet usage x PR -> A	-0.05	-0.035	0.213	0.236	0.814
Education Level x EE -> A	0.038	0.03	0.141	0.27	0.787
Education Level x T -> A	-0.192	-0.145	0.195	0.986	0.324
Daily Internet usage x FC -> A	0.171	0.132	0.139	1.229	0.219
Daily Internet usage x EE -> A	-0.169	-0.142	0.134	1.266	0.205
Education Level x PR -> A	-0.211	-0.233	0.173	1.219	0.223
Education Level x SI -> A	0.101	0.136	0.136	0.743	0.457
Education Level x PA -> A	0.045	-0.015	0.172	0.261	0.794
Education Level x PE -> A	-0.033	-0.033	0.11	0.299	0.765
Daily internet usage x UR -> A	0.057	0.053	0.175	0.324	0.746
Daily internet usage x SI -> A	-0.064	-0.035	0.228	0.281	0.779
Education Level x CC -> A	0.088	0.075	0.153	0.576	0.565
Daily internet usage x PA -> A	-0.259	-0.271	0.171	1.511	0.131
Daily internet usage x PS -> A	0.245	0.215	0.252	0.972	0.331
Education Level x PS -> A	0.194	0.187	0.228	0.85	0.395
a					

6. Managerial Implications

The study is highly relevant for policymakers since the initiative for DigiLocker is based on having more paperless transactions. However, the response to DigiLocker so far is lukewarm. Therefore, all stakeholders in this project must understand the problems individual citizens face while adopting this application, their threats and challenges. The study's findings provide input to policymakers for designing awareness campaigns to spread this initiative to various parts of the country. They also put forward the factors that affect the technology adoption process in a developing country like India. A study of such magnitude is highly relevant for society because it will serve as a barometer to understand the underlying reasons for non-acceptance of a technology-based platform despite being offered free of cost. The present study has also proposed a practical framework to harness the utility of DigiLocker. Hence, in the long run, such findings will help to create better policies for the masses in terms of improvement in IT infrastructure and other vital areas.

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Organisation Politics And Its Impact On The Individual Behaviour At Work Place

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ABSTRACT

Organizational politics, characterized by informal, unofficial dynamics influencing decision-making, power distribution, and resource allocation, significantly impacts individual behavior in the workplace. This study explores the relationship between organizational politics and individual behavior, focusing on how various factors such as personal traits, organizational culture, and managerial attributes shape workplace dynamics. Specifically, it examines the role of learning, experience, and individual attributes in mitigating the negative effects of organizational politics. A survey of 320 managers from government, private, and non-government organizations in India was conducted using a questionnaire addressing key attributes such as preparedness to overcome organizational politics, creativity, positive approach, and a sense of humor. The analysis, using the chi-square test, revealed that organizational politics directly influences individual behavior, with certain managerial attributes helping to create a more politics-free environment. The findings suggest that positive managerial attributes, including a proactive approach to overcoming politics, creativity, and compassion, are vital for improving individual behavior and enhancing organizational success. The study concludes with recommendations for organizations to foster a positive work environment through leadership development and the promotion of ethical behavior to reduce the adverse impacts of organizational politics.

***Keywords:** Organizational Politics, Individual Behavior, politics-free environment, success*

INTRODUCTION

Organizational politics refers to the informal, unofficial, and sometimes hidden dynamics that influence decision-making, power distribution, and resource allocation within an organization. An organization is a structured group of people, systems, and processes working together to achieve common goals and objectives. In general there are three types of organisations which we usually find and take into consideration while stating the behaviour of an individual i.e. business organisation, government organisation and non profit organisation. In non-profit organisation NGOs are mainly concerned. Politics refers to the activities, actions, and policies related to governing a country, state, or organization. It involves the exercise of power, authority, and influence to achieve desired goals and objectives. Politics are basically divided into National politics, International politics, local politics and organisation politics. Here we are taking organisation politics in which politics under the company or institutional level is considered for the study. Individual behaviour refers to the actions, attitudes, and responses of a single person within a social context. There are different types of individual behaviour that we find i.e. Cognitive Behaviour (thoughts and decision-making), Affective Behaviour (emotions and feelings), Conative Behaviour (motivation and actions) and Social Behaviour (interactions with others).

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There are different factors which influence the individual behaviour in the workplace these factors are summarized into seven factors as follows:

1. Personal Factors: It includes
➢   Personality traits
➢   Attitudes and values
➢   Motivation and goals
➢   Emotional intelligence
➢   Self-esteem and confidence
➢   Learning style and ability
➢   Age and experience

2. **Organizational Factors:** It includes
➢   Company culture and climate
➢   Leadership style and management
➢   Communication channels and networks
➢   Organizational structure and design
➢   Policies and procedures
➢   Reward and recognition systems
➢   Work environment and physical conditions

3. **Social Factors:** It includes
➢   Colleagues and team dynamics
➢   Supervisors and mentors
➢   Client and customer interactions
➢   Social norms and expectations
➢   Diversity and inclusion
➢   Conflict and conflict resolution
➢   Feedback and performance evaluations
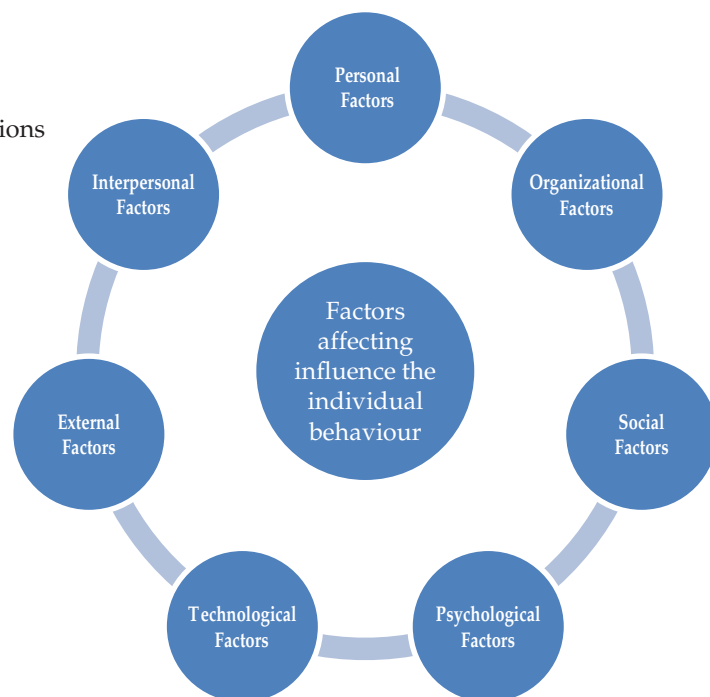
Figure 1: Factors affecting individual behaviour

4. **Psychological Factors:** It includes
➢ Stress and well-being
➢ Job satisfaction and engagement
➢ Burnout and exhaustion
➢ Cognitive biases and heuristics
➢ Emotional regulation and control
➢ Learning and development opportunities
➢ Work-life balance

5. **Technological Factors:** It includes
➢ Automation and AI
➢ Communication tools and software
➢ Data analytics and performance tracking
➢ Virtual teams and remote work
➢ Cyber-security and data protection
➢ Digital literacy and skills
➢ Technological change and innovation

6. **External Factors:** It includes
➢ Economic conditions and market trends
➢ Government regulations and policies
➢ Industry standards and best practices
➢ Social media and public image
➢ Globalization and cultural diversity
➢ Environmental concerns and sustainability
➢ Demographic changes and workforce diversity

7. **Interpersonal Factors:** It includes
➢ Interpersonal conflict
➢ Team cohesion and collaboration
➢ Manager-employee relationships
➢ Peer relationships and social support
➢ Customer relationships and service
➢ Communication style and effectiveness
➢ Feedback and constructive criticism

Importance of understanding individual behaviour at workplace:
1. **Improved Communication**: Understanding individual behaviour helps in effective communication, reducing misunderstandings and conflicts.
2. **Enhanced Teamwork**: Recognizing individual differences foster collaboration, teamwork, and better working relationships.
3. **Increased Productivity**: Understanding individual motivations and needs boosts employee engagement, leading to higher productivity.
4. **Effective Leadership**: Knowledge of individual behaviour enables leaders to tailor their approach, motivating and guiding employees effectively.

5. **Conflict Resolution**: Understanding individual behaviour helps resolve conflicts efficiently, maintaining a positive work environment.

6. **Talent Management**: Recognizing individual strengths and weaknesses informs hiring, training, and development decisions.

7. **Employee Satisfaction**: Understanding individual needs and preferences enhances job satisfaction, reducing turnover.

8. **Diversity and Inclusion**: Embracing individual differences promotes inclusivity, fostering a culture of respect.

9. **Performance Management**: Understanding individual behaviour informs performance evaluations, improving feedback and goal-setting.

10. **Organizational Culture**: Individual behaviour shapes organizational culture; understanding it helps create a positive, productive work environment.

Material and Methods

The present work is an analytical research based on the primary data. A survey is conducted using questionnaire containing 09 questions related to the study. The questionnaire is designed having six attributes selected for the study. These attributes are Preparedness to overcome organisational politics, Positive approach, Creativity in work, Cultivate Sense of belonging, Compassionate and sense of humour.

The sample unit consists of 320 managers who are working in the top positions in government, private and Non Government Organisations. The parameter of selection of managers is convenient sampling technique. The criteria of selected managers as respondents are having work experience of more than ten years in the same organisation. The tool applied for analysis is chi square test. Chi square test is a non parametric test. Its holds an important place as this statistical tool is applicable for qualitative data and discrete series. Here we test the relationship or independence of the proportions

$$\chi^2 = \sum \frac{(fo - fe)^2}{fe}$$

Where f_e = expected frequency
F_o = observed frequency

Hypothesis

For the study three hypotheses was framed

Hypothesis 1

HO:- Organisational politics has a direct impact on the individual behaviour at workplace

H1 :- Organisational politics does not has any direct impact on the individual behaviour at workplace

Hypothesis 2

HO:- Learning and experience attributes helps managers in positive manners to overcome organisational politics.

H1 :- Learning and experience attributes does not helps managers in positive manners to overcome organisational politics.

Hypothesis 3

HO:- Attributes of managers helps workplace to be politics free.

H1 :- Attributes of managers does not helps workplace to be politics free

Area of the study

The area of the study is limited to the boundary of India.

Discussion

Table 1

	Yes	**No**
Male (189)	112	77
Female (131)	92	21

V = (c-1) (r-1) = (2-1) (2-1) = 1

The value of χ^2 at 5 % level of significance for 5 degree of freedom is 3.84. The calculated value of χ^2 which is 2.719 is less than the tabular value. Hence Ho is accepted. This concludes Organisational politics has a direct impact on the individual behaviour at workplace.

Table 2

	Preparedness to overcome organisational politics	**Positive Approach**	**Creativity In work**	**Cultivate Sense of Belonging**	**Compassionate**	**Sense of Humour**
Male (189)	56	25	11	35	40	22
Female (131)	48	20	18	21	09	15

V = (c-1) (r-1) = (6-1) (2-1) = 5

The value of χ^2 at 5 % level of significance for 5 degree of freedom is 11.07. The calculated value of χ^2 which is 3.19 is less than the tabular value. Hence Ho is accepted. This concludes that learning and experience attributes helps managers in positive manners to overcome organisational politics.

Table 3

	Preparedness to overcome organisational politics	**Positive Approach**	**Creativity In Teaching**	**Cultivate A Sense of Belonging**	**Compassionate**	**Sense of Humour**
Yes	89	69	12	14	38	40
No	12	8	18	10	7	3

V = (c-1) (r-1) = (6-1) (2-1) = 5

The value of χ^2 at 5 % level of significance for 5 degree of freedom is 11.07. The calculated value of χ^2 which is 7.16 is less than the tabular value. Hence Ho is accepted. This concludes that attributes of managers helps workplace to politics free.

Conclusion

Analysis has showed that Organisational politics has a direct impact on the individual behaviour at workplace. It has also concluded that managerial attributes of learning and experience had helped the managers to overcome organisational politics. These learning and experience attributes help managers in a positive manner to develop their behaviour in a positive manner. Thus proving that all the six attributes taken for the study are very vital for managers of any organisation to be successful in their respective area.

Suggestions

Organisational politics plays a crucial role in any organisation. Some organisations accepts some do not. We can summarise that organisational politics can be good or bad depending upon its impact on the organisational growth. Organisation is composed of individuals coming from different social, culture and economical backgrounds. Politics evolves automatics or in simple words its pop-up on its own. People with strong values, attitude and ethics does not harm others at workplace while vice versa is seen in various organisations. Even the head of institutions/organisations are no exceptions and comes under the influence and sometimes part of organisational politics. Working culture must be work oriented and workers friendly. To overcome organisational politics following suggestions were made on the basis of analysis.

1. All managers must work on their working environment to have a positive behaviour.

2. Individual behaviour of managers is very important in his personal and professional growth and development.

3. Attribute like preparedness to overcome organisational politics, creativity in work and sense of humour was vital elements in the development of manager's behaviour.

4. Positive approach towards situation makes managers more effective and the managers who have positive approach at their work are highly recognised by their organisations.

5. A manager must upgrade himself according to changes in work system, technology and innovation. This will make them more adaptable towards society.

6. Managers must work sincerely picking all the responsibilities and accountabilities and try to not indulge in bad politics. They should work respecting the behaviour of other people in organisation keeping their ethical and moral values.

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Unethical Marketing Practices in Indian Apple Fruit Industry – A Case Study of Jammu & Kashmir Apple Fruit Industry

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ABSTRACT

Business ethics is a complex and contentious field, particularly in the context of balancing profit-making with doing the right thing. Ethical business practices are essential in today's competitive world, and the concept of ethical marketing is central to fostering trust, credibility, and customer loyalty. In contrast, unethical marketing can lead to reputation damage, legal issues, and ultimately business failure. This study explores the prevalence and impact of unethical marketing practices within India's apple industry, particularly in the Jammu & Kashmir region, where the majority of the country's apple production occurs. The research identifies unethical practices at every stage of the apple production and marketing chain, from the use of harmful chemicals to exploitation by middlemen. The objectives of the study are to analyze the role of government interventions in curbing unethical practices, assess the economic impact on growers and traders, and identify the challenges faced by the apple industry. A random sample survey of 300 respondents, including apple growers and traders, was conducted, focusing on areas such as crop insurance, financial dependence, packing, transportation, and sales. The findings highlight the widespread nature of unethical marketing and the lack of government support, with growers suffering from exploitation by middlemen and limited access to financial and insurance schemes. The study concludes with recommendations for strengthening ethical marketing practices and improving the sustainability and profitability of the apple industry in India.

Keywords: Business Ethics, marketing, sustainability, profitability

INTRODUCTION

Business ethics is one of the most complicated and contentious subjects in the human history. The relationship between doing the right thing and making money has been debated upon by both academicians and business leaders for years with a little consensus reached. In today's world, ethical business practices are more important and necessary than ever because of growing competition, substitutes, innovation, strategies etc. It is notoriously difficult subject because everyone has subjective judgments about what is "right" and what is "wrong".

Ethical marketing entails making honest claims and satisfying the needs of potential and existing customers. It boosts credibility and trust, develops brand loyalty, increase customer retention and prompts customers to spread the word about the products or services which we are marketing. Ethical marketing is less of a marketing strategy and more of a philosophy. It seeks to promote honesty, fairness and responsibility in all components of marketing. Ethical marketing is not a hard and fast list of rules, but a general set of guidelines and principles to be followed and to assist companies as they evaluate new marketing strategies. Unethical

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marketing practices on the other hand is as bad as a plague which can send wrong signals about our products and services, destroy our brands, reputation, image of the business and above all possibly lead to legal problems and finally a failure to shutter down our business. Those companies who use unethical means to gain a competitive advantage especially unethical advertising can gain in short run but in the long run, they fail to uphold their business.

Unethical practices are common now-a-days. These unethical practices may include intentionally evoking rage or sadness to manipulate consumer decisions, using fair tactics, targeting disadvantage people or tricking customers into buying a product or services. Misleading statements, distorting facts, making false or deceptive comparisons about a rival product, inciting, exploiting, stereotyping, disparaging, plagiarizing and the like are all unethical marketing practices in the present day world. Avoiding unethical marketing practices can help a business to avoid consequences such as losing the good faith and loyalty of customers and jeopardizing profitability. Such type of unethical marketing practices does not have been seen only in manufacturing and service sectors but a great level of unethical marketing practices has also been observed in fresh fruit industry especially in Indian sub continent.

India is the fifth largest apple producing country in the world. Marketing plays an important role in apple fruit industry with respect to its net income returns. The ethical marketing system for apple fruit industry is highly demanded and required for its sustainable growth and development at global as well as at regional level. From the pre-production stage to the consumption stage, all the components of marketing are unethically followed by respective businessmen, be it a pesticides, fungicides, insecticides. Chemical fertilizers, packing, cold storage, transportation, insurance or selling, at all stages unethical marketing practices have been seen. The cream is always taken away by the middlemen at every stage and finally the grower becomes the main victim of all these unethical marketing practices, as if the system has got legal sanction from the government to follow such unethical marketing practices. No agency- government or private are serious about to overcome these unethical marketing practices which needs to be deliberated and debated upon so that the system may be put on the right track.

Objectives:

1. To analyze the role of government in curbing the unethical marketing practices in Indian Apple Industry.

2. To analyze the effects of unethical marketing practices upon the incomes of growers / traders.

3. To analyze the role of government in assisting the growers / traders by way of providing subsidies on inputs.

4. To find out the main problems faced by the industry as well as by the growers / traders.

Methodology:

In order to achieve the objectives the investigator has conducted a random sampling of 300 respondents who are mainly growers and traders. Keeping in view the restrictions and unfavourable conditions in Kashmir, the data thus collected from the primary source has been tabulated, analyzed and interpreted by simple statistical methods.

Global Scenarios:

Apples originated in the Middle East some more than 4000 years ago. There are 7500 varieties of apples in the world. These varieties are found in China, USA, Poland, Turkey, India, Iran, Russia, UK, Canada, Germany, Israel, Netherland, Australia and Switzerland. China is the largest producer of apples with 41.4 MT followed by USA with 5.2 million tons of apples. Turkey with 3 million tons at third number and Poland with 2.4 million tons at fourth number and India comes at fifth number with 2.3 million tons of apple production. Some of these countries have developed their apple industry on modern lines by introducing highly yielding varieties of apple plants, using latest tools and technologies and put their industry as an export oriented industry. The following table 1.1 reveals the global breakup of apple production.

TABLE 1.1

S.No.	Country	Production (MT)
01	China	41.4
02	USA	5.2
03	Turkey	3.0
04	Poland	2.4
05	India	2.3
06	Iran	2.1
07	Italy	1.9

Indian Scenario:

Apple was introduced into the country by the British rulers in the Kulu valley of the Himalayan state of Himachal Pradesh as far back as 1865 and subsequently colored delicious varieties of apple has been introduced in the same state at Shimla during 1917. Presently out of 29 states, India has only two north-western states (Jammu & Kashmir, Himachal Pradesh) where apples are grown on large scale by producing 94% of total country's production. The rest 6% are mainly produced by Utrakhand of the north-eastern hilly area of the country as highlighted by the following table 1.2

Table 1.2

S.No.	State	Area under cultivation	Growing belts of the state
01	Jammu & Kashmir	45%	Baramulla, Shopian, Kulgam, Budgam, Anantnag & Kupwara
02	Himachal Pradesh	83%	Shimla, Kalu, Kinor, Chamb, Siranur and Mundi
03	Uttrakhand	30%	Almor, Pitorgarh, Tehri, Garhwal and utterkashi
04	Assam	NA	Tawang, west kenring, lower subarsin

Source: National Horticulture Board Govt. of India (MOA)

The Indian apple industry has not been developed as an export oriented industry because of apathetic attitude by the Centre as well as by the state government. The total annual production 2.3 million tons comes from only 3 states i.e., J & k, H.P and uthrakhand, in which the highest production is coming from J & K followed by Himachal Pradesh and Utrakhand which is evident from the following table.

Table 1.3

S.No	State	Area in hectares	Production 000, MT	Production MT per hectar
01	J&K	90.1	909.6	10.1
02	H.P	92.8	180.6	1.9
03	Uttrakhand	51.8	59.3	1.1
04	Arunachal Pr.	6.7	8.5	1.3
05	Nagaland	0.1	0.3	3.3
	All India	241.6	1158.3	4.8

Source: National Horticulture Board Govt. of India (MOA)

Kashmir is popularly known as paradise on earth because of its natural beauty. The valley(Kashmir) is bestowed by nature in respect of green meadows, snowcap mountains/hills, springs and streams, natural breezing, cool temperature and above all by abundance of fresh and dry fruits. The Kashmir valley is the centre of tourist attraction all over the world. The economy of the state is largely dependent upon apple and tourism industry. If agriculture is known as the backbone of Indian economy, apple industry is the backbone of Kashmir economy. The industry is growing at a very high speed. Nearly 90% of the agricultural land has been converted into horticulture for last 20 years keeping in view its lucrative returns and importance the state government has acquired a high yielding quality of apple plants from Italy and Bulgaria, which are given to the farmers for high quality of apple production. However, the indigenous delicious plants still dominate the industry being a durable and high yielding variety. The cultivation of apples usually commences in Kashmir just after the winter season i.e., in the month of March-April every year, when the growers start to make oil spray and chemical fertilizers. The harvesting season which is normally started in the month of September to ending October or upto middle November in certain areas every year. Growers are making nearly 6-9 pesticides, fungicides or insecticides sprays during these 8 months depending on weather conditions.

This whole process from growing to marketing the produce to the ultimate consumer, the growers/traders has to face many difficulties and hardships. The State government has introduced a scheme known as KCC (Kissan Credit Card) under which a grower/trader who has 8 kanals of orchard land can avail the benefit of the scheme by obtaining Rs. 3 lakh loan facility from the bank @7% of interest. But this scheme did not make any significant change in the growers/traders returns because of small and marginal growers and non-effective use of the loan in a proper utilization. The department of horticulture has introduced a scheme of providing a shed type non AC godown within the orchard of a dimension 25x20 sqft. Again the scheme did not prove to be a viable for the upliftment of the industry.

The growers and traders are usually facing the unethical marketing practices by the middlemen, be it a packing, transportation, insurance, cold storage or at the Mandi (selling point). The lions' share of profit is normally grabbed by the middlemen having no interference by the central or state government.

In order to analyze these problems, a random sample survey of 300 respondents has been conducted including small, marginal and big growers/traders with regard to the following areas:

1. Crop insurance
2. Financial dependence
3. Packing
4. Transportation
5. Cold Storage
6. Carriage insurance
7. Sales

Neither the growers / traders have been seen to get their crop insured by any agency nor any assistance by the government in this regard. People are found very much optimistic with regard to natural climates hardly to occur. So this concept of insuring the crop is not found in India. However, there are two types of commission agents who provide financial support to the growers/traders. One at local level, another at national level. The local agent gets the finance from the national agent or having his own sufficient finance in rare cases. The local agent provides financial support to the growers in addition to the required inputs as per the agreement with the grower. The commission agent charges from Rs.40 to Rs.60 per apple box having a weight of 15-17 kg as his commission. The local agent has to deliver all the apples to the national agent from whom finance has been obtained and in return the national agent gives some amount by way of percentage to the local agent which nearly amounts to Rs.40-50 per apple box and is not known to grower. So, in this way, the local agent earns from Rs.100 to Rs.120 per apple box which is a great exploitation in providing financial help to the grower or sometimes the grower gets direct financial assistance from the national agent depending upon the credibility of the grower/trader and saves the local agent's commission. Table 1.4 highlights the financial dependence of the grower/trader.

Table 1.4

S.No	Nature	Respondents	Agree	%age	Disagree	age%	Rank
1	Own finance	300	50	16.66	250	83.33	III
2	LCA	300	205	68.33	95	31.66	V
	NCA	300	95	31.66	205	68.33	
	Bank	300	x	x	x	X	
3	Rate of interest 15-20						IV
	20-25	300	123	41	177	59	
		300	155	51.66	145	48.43	
4	Govt. support	300	X	X	300	100	I
5	Crop insurance	300	20	6.66	280	93.33	II

It is evident from the responses that the main problem in respect of finance is lack of government's support which got first rank in order of main problems faced by growers/traders except (KCC) with the result the growers/traders are largely dependent upon LCA and NCA who operate marketing services to the growers at Mandi levels/sales points. The growers neither get their crops insured at personal level nor Government helps them in this respect, as a result the growers/traders become victims of these middlemen by charging exorbitant interest rates.

Packing plays an important role in the sale of products and is one of the important ingredients of marketing system with regard to apple industry is shown in the following table.

Table 1.5

S.No	Nature	Respondents	Agree	%age	Disagree	%age	Rank
1	Type of packing Wooden Cardboard	300 300	150 150	50 50	150 150	50 50	V
2	Rate Fixed Variable	300 300	X 300	x 100	300 X	100 X	I
3	Price discrimination	300	300	100	X	X	II
4	Price discrimination Wooden Cardboard	300 300	300 300	100 100	X X	X X	IV
5	Govt. control	300	X	X	300	100	III

Again the government control upon the fixation of price with regard to packing materials is 100% nill as revealed by the respondents. This is followed by price discrimination by the packing material manufacturers with wooden or cardboard. The same discrimination in rupees ranges from Rs.10 to 40 per box from the normal rate of Rs.60 per box means that in scarcity the grower/trader has to pay Rs.90 per box.

Finally when apples reach to the Mandi (place where apples are sold or bought), there is a big and unethical role of commission agent. The sale takes place under a piece of cloth by using a market language between the commission agent and buyer. Hardly anywhere it has seen an open sale. Table 1.6 reveals such position.

Table 1.6

S.No	Nature	Respondents	Agree	%age	Disagree	%age	Rank
1	Direct selling by owner	300	50	16	250	84	IIII
2	Local Mandis Through LCA	300	85	28.33	215	71.66	IV
3	National Mandis through NCA	300	215	71.66	85	28.33	VI
4	Open sale	300	15	5	285	95	II
5	Under cloth	300	285	95	15	5	VII
6	Sale with owner consent	300	100	33.33	200	66.66	V
7	Govt. control over malpractices	300	X	-	300	100	I

It is evident from the table that majority of the growers/traders(71.66%) are selling their apples in national markets, but 95% of the respondents agree that there is no open auction for the apples instead it is conducted under a piece of cloth, not known to anybody. This is highly recognized as an unethical marketing practice by the commission agents. However, 5% of the respondents agree that the sales are conducted openly because of the fact that the lot size is very low, which has no huge income effect upon the returns. The 100% respondents are of the view that Government's role to curb such unethical practices is negligible. With the result, the industry suffered in general and growers and traders in particular.

Five year graphical sales trend (per box)

Graph
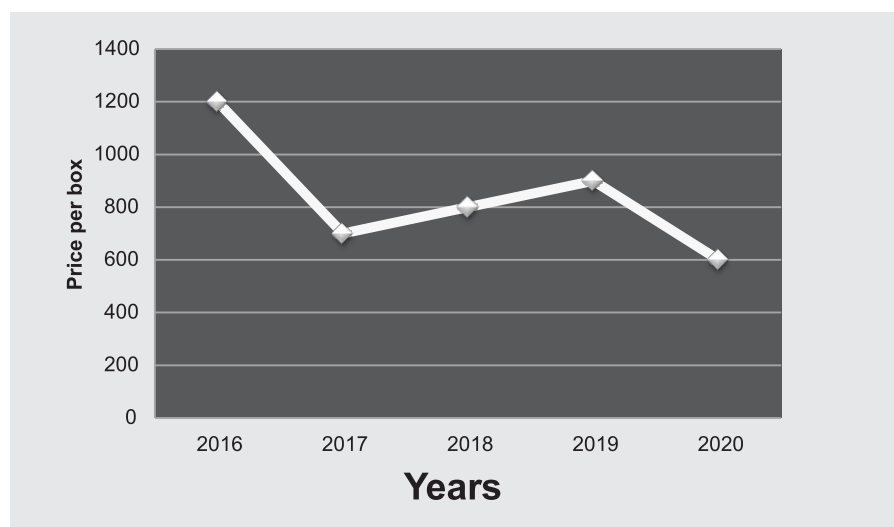
The above data reveals the picture of sale of per box (15-17 kg) for last five years. During 2016, the rate was nearly Rs.1200 on an average which goes on declining for all the successive years till it reached Rs.600 on an average during 2020. The growers and traders suffered a huge loss and were heavily indebted to the NCA and

banks. The last two years i.e., 2019 and 2020, growers and traders have purchased the apples at a rate of more than Rs. 600, the per box.

Conclusion:

1. Unethical marketing practices were found from production to consumption at all levels of marketing of Kashmir apples.

2. Duplicate inputs like fertilizers, pesticides and fungicides are commonly sold under a registered brand name to the growers/traders at unethical rates with the result the apple diseases are hardly controllable.

3. Unethical marketing practices with regard to sale of apples at Mandi level which is commonly conducted under piece of cloth.

4. Government's non seriousness with regard to control these unethical marketing practices at all levels and lack of latest technology and other facilities to growers/traders.

5. Unethical marketing practices of mixing up low grade apples with high grade quality under brand name by growers/traders.

Suggestion:

For sustainable growth and development of Indian apple industry, the following suggestions were put forth:

1. In order to overcome all these unethical marketing practices, Government's role is indispensable for the sustainable growth of the apple industry in India. The apple trade should be recognized as an industry instead to left it at the mercy of grower.

2. The quality of inputs like fertilizers, pesticides and fungicides must be checked and a task force team should be framed to check at manufacturing as well as at retail supplier's level.

3. Latest technology and high yielding plants must be introduced and general facilities, subsidies fixed, cost for all inputs, transportation and cold storage should be provided to the growers/traders to ensure it as an export oriented industry as is done in other advanced countries.

4. The grading of apples at packing level must be ensured so that right quality is to be sold in the right markets and that of low quality is to be sold locally which will create a confidence among buyers and will add a good return to the growers' income.

5. The unethical sale practices should be made through open auction system before a grower in the national Mandies instead sale under piece of cloth.

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Analysing The Impact of Data Analytics Adoption on The Business Strategy Evolution

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ABSTRACT

Data analytics is a systematic process of collecting, cleaning, processing, and interpreting data to uncover valuable insights and trends. By utilizing various techniques such as statistical analysis, data mining, machine learning, and visualization, it transforms raw data into actionable information that supports informed decision-making. In the current business landscape, data analytics is indispensable, enhancing strategic decision-making, fostering innovation, managing risks, and offering a competitive advantage. Its evolution has advanced from descriptive analytics focused on historical data to real-time, AI-driven solutions providing actionable insights. Data analytics plays a crucial role in shaping business strategies by enabling informed decision-making, personalizing customer experiences, optimizing operations, and identifying new growth opportunities. The future of data analytics lies in integrating artificial intelligence, machine learning, and real-time analytics, which will drive more precise and adaptable business strategies. This dynamic integration of data analytics within business operations and strategy formulation is pivotal for achieving long-term goals and staying competitive in an increasingly data-driven world.

***Keywords:** Data Analytics, statistical analysis, real-time, artificial intelligence*

INTRODUCTION

Data Analytics: Data analytics is a systematic process that involves collecting, cleaning, processing, and interpreting data to discover valuable insights, patterns, and trends. It encompasses a wide range of techniques, including statistical analysis, data mining, machine learning, and visualization. Data analytics helps organizations transform raw data into actionable information, providing a solid foundation for informed decision-making.

1.1) <u>Significance of Data Analytics in Today's Business Landscape:</u>

Data analytics holds immense significance in the contemporary business landscape for the following reasons:

<u>Informed Decision-Making:</u> In a data-driven world, organizations rely on data analytics to make informed decisions. It offers a data-backed approach that reduces guesswork and enhances the quality of strategic choices.

<u>Competitive Advantage:</u> Businesses that harness the power of data analytics gain a competitive edge. They can better understand market trends, customer behaviors, and operational inefficiencies, enabling them to adapt and stay ahead of their competitors.

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Customer-Centricity: Data analytics enables organizations to provide tailored experiences to customers. By analyzing customer data, businesses can personalize products, services, and marketing efforts, leading to improved customer satisfaction and loyalty.

Risk Management: Data analytics aids in identifying and mitigating risks. Whether it's fraud detection, supply chain optimization, or financial forecasting, analytics can uncover anomalies and patterns indicative of potential issues.

Innovation and Growth: Through data analytics, organizations can uncover new opportunities, market trends, and unmet customer needs. This fosters innovation, allowing businesses to introduce new products, optimize processes, and expand into new markets, thereby driving growth.

1.2) The Evolution of Data Analytics:

Data analytics has evolved significantly over the years:

- Descriptive Analytics (Past): Initially, data analytics focused on describing historical data. It involved basic reporting, summarization, and visualization to provide insights into past events and performance.

- Predictive Analytics (Future): Over time, predictive analytics emerged, enabling organizations to forecast future trends and outcomes based on historical data. Statistical models and machine learning algorithms played a central role in this phase.

- Prescriptive Analytics (Actionable Insights): The evolution continued with prescriptive analytics, which not only predicts future outcomes but also suggests actions to optimize results. It provides actionable insights that guide decision-makers.

- Real-Time Analytics (Immediate Insights): In today's fast-paced environment, real-time analytics and big data analytics have become crucial. Organizations can process vast datasets in real-time, allowing for immediate decision-making and rapid response to changing conditions.

- AI and Machine Learning (Advanced Insights): The integration of artificial intelligence (AI) and machine learning (ML) has revolutionized data analytics. These technologies enable advanced pattern recognition, prediction, and automation, taking data analytics to new heights.

1.3) Role of Data Analytics in Decision-Making:

Data-Driven Decision-Making: It enables organizations to base decisions on factual analysis rather than intuition or limited information, resulting in more reliable and data-backed choices.

Enhanced Strategic Planning: Analytics provides insights that inform strategic planning. Businesses can align their goals, allocate resources more efficiently, and adapt to changing market conditions.

Customer Insights: By analyzing customer data, organizations gain a deep understanding of their audience, allowing them to tailor products, services, and marketing strategies to meet customer needs effectively.

Risk Mitigation: Analytics helps identify and manage risks, such as fraud detection, cybersecurity threats, and supply chain disruptions, reducing potential financial and operational losses.

Innovation and Optimization: Data analytics fosters innovation by identifying areas for improvement, optimizing processes, and uncovering opportunities for growth and efficiency.

1.4) Critical Role of Business Strategy in Achieving Long-Term Organizational Goals:

A well-crafted business strategy serves as the guiding framework that aligns an organization's resources, actions, and efforts toward achieving its long-term objectives. It plays a pivotal role in several key aspects:

Direction and Focus: Business strategy provides clarity about where the organization is headed and what it seeks to accomplish. It sets a clear direction for all employees, ensuring that their efforts are synchronized towards common goals.

Resource Allocation: Effective strategy helps in the efficient allocation of resources, including financial, human, and technological assets. It ensures that resources are invested where they are most likely to yield the highest returns in line with long-term objectives.

Risk Mitigation: Strategy involves assessing potential risks and developing plans to mitigate them. It anticipates challenges and outlines steps to overcome them, reducing the likelihood of unforeseen disruptions to long-term plans.

Measurement and Accountability: A well-defined strategy establishes key performance indicators (KPIs) and milestones to measure progress. This allows for regular performance evaluation, accountability, and adjustments if needed to keep the organization on track.

1.5) Real-Life Example:

- Tesla Inc.: Tesla's business strategy revolves around accelerating the world's transition to sustainable energy. Their long-term goal is to revolutionize the automotive industry and reduce dependence on fossil fuels. Tesla's strategy emphasizes electric vehicles, renewable energy products, and innovation in battery technology. This clear and ambitious strategy has guided Tesla's growth and market leadership.

- Apple Inc.: Apple's business strategy has been instrumental in achieving its long-term goal of becoming a technology industry leader. One of their strategic moves was the introduction of the iPhone in 2007, which revolutionized the smartphone market. This bold strategy not only drove massive revenue but also solidified Apple's position as a leading innovator.

- Netflix: Netflix's evolution from a DVD rental company to a global streaming giant demonstrates the importance of adaptability in business strategy. They recognized the shift in consumer behavior towards online streaming and swiftly adjusted their strategy. Today, Netflix is a prime example of a company that stayed competitive by continuously adapting its business model.

1.6) The Significance of a Well-Defined and Adaptable Business Strategy for Staying Competitive:

In today's dynamic business environment, staying competitive requires more than just having a strategy; it necessitates having a well-defined and adaptable one:

Market Dynamics: Markets are constantly evolving due to changes in consumer behavior, technology, and global events. An adaptable strategy enables an organization to respond quickly to emerging trends and shifting market dynamics.

Competitor Actions: Rivals can disrupt markets or introduce new innovations. An adaptable strategy allows a company to counter competitive moves effectively and maintain or regain a competitive edge.

Customer Expectations: Customer preferences and expectations change over time. An adaptable strategy allows a company to pivot and tailor products, services, and customer experiences to align with evolving demands.

External Factors: External factors such as economic shifts, regulatory changes, and natural disasters can impact business operations. A well-defined strategy should include contingency plans and adaptability to manage these external challenges.

Example:

Amazon: Amazon's business strategy has been characterized by constant adaptation. Originally an online bookstore, Amazon has expanded into various markets, including e-commerce, cloud computing (Amazon Web Services), and digital streaming. Their adaptability to diversify and innovate has allowed them to remain highly competitive and sustain growth over the long term.

1.7) Integration of Data Analytics into Business Operations:

Customer Insights: Data analytics empowers businesses to gain profound insights into customer behavior and preferences. This is achieved through the collection and analysis of data from diverse sources, including websites, mobile apps, and social media platforms. These insights enable companies to tailor

their products, services, and marketing strategies to meet specific customer needs, thereby enhancing customer satisfaction and loyalty.

Operational Efficiency: The application of data analytics to internal processes and operations is a game-changer. By scrutinizing data related to supply chain management, production, and inventory, organizations can identify bottlenecks, reduce wastage, and streamline workflows. Predictive maintenance, for instance, minimizes equipment downtime, ensuring optimal operational efficiency and cost savings.

Risk Management: Data analytics is instrumental in managing risks effectively. In sectors such as finance and insurance, predictive analytics is used to detect and prevent fraudulent activities, as well as to assess and mitigate various types of risks. This data-driven approach enhances the security and stability of businesses and financial institutions.

Market Research and Competitive Analysis: Data analytics plays a crucial role in market research and competitive analysis. Businesses can utilize data to monitor market trends, analyze competitor activities, and identify opportunities and threats. Armed with this information, companies can make informed decisions about market entry, product development, pricing strategies, and overall market positioning.

Employee Productivity: Data analytics also extends to human resources, where it can optimize employee productivity and satisfaction. Analyzing employee data helps organizations identify training needs, allocate resources efficiently, and foster a work environment conducive to higher productivity and job satisfaction.

1.8) How Data Analytics Shapes Business Strategies:

Informed Decision-Making: One of the primary advantages of data analytics is its capacity to support informed decision-making. Data-driven insights are invaluable for both day-to-day operations and long-term strategic planning. They enable organizations to make decisions grounded in evidence rather than intuition, leading to better outcomes.

Personalization: Data analytics enables businesses to deliver highly personalized experiences to customers. Whether through e-commerce product recommendations or tailored content, personalization enhances customer engagement and loyalty, driving increased customer retention and revenue.

Market Segmentation: Precise market segmentation is made possible through data analytics. Companies can divide their target markets into granular segments based on factors like demographics, behavior, and preferences. This allows for the customization of marketing campaigns and product offerings, increasing their relevance and effectiveness.

Competitive Advantage: Data analytics offers a significant source of competitive advantage. Organizations that effectively leverage data gain a deeper understanding of market dynamics, customer preferences, and emerging trends. Armed with this knowledge, they can develop strategies that outperform competitors, securing a more prominent market position.

Performance Metrics and KPIs: Data analytics forms the bedrock for measuring performance and tracking Key Performance Indicators (KPIs). This ongoing monitoring ensures that organizations can assess their progress toward strategic goals and make real-time adjustments when necessary.

It ensures that strategies remain aligned with shifting market conditions and internal capabilities.

1.9) Future trends in data analytics for business strategy formulation

Real-time data analytics: Real-time data analytics allows businesses to make decisions based on the latest data, as it becomes available. This can be used to improve customer service, optimize operations, and identify new opportunities. For example, a retail company could use real-time data analytics to track inventory levels and customer demand. This information could then be used to make decisions about restocking, pricing, and promotions.

Artificial intelligence (AI) and machine learning (ML): AI and ML are being used to develop new and innovative data analytics applications. For example, AI can be used to automate tasks such as data cleaning and feature engineering. ML can be used to develop predictive models that can forecast future trends and outcomes. For example, a bank could use AI and ML to develop a model that can predict the risk of customer default. This information could then be used to make more informed lending decisions.

Natural language processing (NLP): NLP is a field of AI that deals with the interaction between computers and human language. NLP can be used to extract insights from unstructured data, such as customer reviews, social media posts, and product descriptions. For example, a healthcare company could use NLP to analyze patient feedback and identify common complaints. This information could then be used to improve the quality of care.

Big data analytics: big data analytics is the process of analyzing large and complex datasets. Big data analytics can be used to identify patterns and trends that would be difficult or impossible to see in smaller datasets. For example, a telecommunications company could use big data analytics to analyze customer usage data. This information could then be used to develop new products and services, and to improve the customer experience.

Data visualization: Data visualization is the process of presenting data in a visual format, such as charts, graphs, and maps. Data visualization can make it easier to understand and interpret complex data. For example, a sales team could use data visualization to track their progress towards their goals. This information could then be used to identify areas where improvement is needed.

Data storytelling: Data storytelling is the process of using data to tell a compelling story. Data storytelling can be used to communicate insights to a wide audience, including both technical and non-technical stakeholders. For example, a marketing team could use data storytelling to present the results of a marketing campaign to their senior leadership team. This information could then be used to make decisions about future marketing campaigns.

Data democratization: Data democratization is the process of making data accessible and understandable to everyone in an organization, regardless of their technical skills. Data democratization can help businesses to make more data-driven decisions at all levels. For example, a company could implement a data warehouse to make data more accessible to employees. The company could also provide training on how to use data analysis tools.

Data ethics and governance: Data ethics and governance are becoming increasingly important as businesses collect and store more data. Data ethics and governance frameworks can help businesses to ensure that data is used responsibly and ethically. For example, a company could develop a data ethics policy that outlines how data will be collected, used, and stored. The company could also implement data governance processes to ensure that the policy is followed.

Data-driven decision making: Data-driven decision making is the process of using data to make informed decisions. Data-driven decision making can help businesses to improve their performance and achieve their goals. For example, a company could use data to make decisions about product development, pricing, and marketing. The company could also use data to improve operational efficiency and reduce costs.

REVIEW OF LITERATURE

(Rahman. M 2023) The study investigates how business intelligence affects a bank's operational efficiency and profitability based on data from 259 responses across 27 bank branches. Using the partial least squares-structural equation method (PLS-SEM), it finds a positive link between business intelligence, operational efficiency, and profitability. The research suggests that business intelligence enables banks to offer cost-effective options, providing a competitive advantage and long-term performance improvement potential.

(Daodu.L, Bhaumik.L 2023) The study explores how business analytics impacts market adaptation in Nigeria's eCommerce industry, with a focus on the mediating roles of market sensing and product management. It gathered data from 40 eCommerce firms using a mix of sampling techniques and questionnaires. Quantitative

analysis, including factor analysis, was applied to assess the data. The findings indicate that business analytics significantly influences market adaptation through product management, emphasizing the importance of using analytics for product-related adjustments.

(Zhang.H, Yuan.S 2023) Their study investigates how Big Data Analytics Capability (BDAC) affects a firm's innovation performance using surveys with 421 Chinese professionals in the big data analytics field. The methodology involves structural equation modeling and statistical analysis. The study shows how BDAC positively influences innovation performance, with strategic flexibility and strategic innovation as significant mediators. This effect is amplified under high environmental uncertainty.

(Hanandeh.R et.al 2023) The study investigated how big data, artificial intelligence (AI), and business intelligence (BI) impact e-learning and business performance in the Jordanian telecommunications industry. Data from 269 samples was analyzed using Partial Least Squares (PLS) software. The study found that integrating big data, AI, and BI positively influenced elearning and enhanced various aspects of business performance, including data accuracy, transparency, speed, creative thinking, and learning quality, within the Jordanian telecommunications industry.

(Belik.I&Sharafuddin.S 2022) The study's objective is to trace the evolution of data analytics across different eras: Yesterday(1950s–1990s), Today(2000s–2020s), and Tomorrow(2030s– 2050s), utilizing three distinct case studies. It employs tools such as data analysis software and historical research methods. Findings highlight a continuous evolution driven by rapid technological advancements, indicating a future marked by increased data exchange in an interconnected cyber-physical society.

(Chatterjee.S et.al 2022) The study examined the impact of big data ability and CRM capability on a company's strategic sales performance, considering leadership support. Employing structural equation modeling with 317 responses, the research found that both big data analytics ability and CRM capability positively influence strategic sales performance. Additionally, leadership support was identified as a moderating factor, emphasizing its role in optimizing these capabilities for enhanced sales performance.

(Iranmanesh.M et.al 2022) This study examines how Technological, Organizational, and

Environmental (TOE) factors collectively influence Big Data Analytics (BDA) adoption in SMEs. It analyzes data from 171 SME manufacturing firms using partial least squares analysis. Findings highlight interrelationships among TOE factors and reveal the mediating role of top management support, as well as the moderating effect of environmental factors.

(Tanveer M et.al 2022) This study investigates how COVID-19 affected Ecuador's food sector, with a focus on technological innovation (T.I.) and business data analytics (B.D.A.) in firm performance. Data was gathered via questionnaires, analyzed using Covariance-Based Structural Equation Modeling. B.D.A. proved to significantly influence performance, and the pandemic notably impacted B.D.A., highlighting the importance of data analytics and technological resilience in the food industry during uncertain times.

(Afzal A.et al 2022) This study investigated the impact of investing in big data analytics capabilities and education on business model innovation. Surveying 499 managers in Jiangsu, China, using Structural Equation Modeling, it found that such investments enhanced technological orientation and, subsequently, business model innovation. Employee creativity also positively contributed to innovation outcomes.

(Mohammad B et.al 2022) The study examined factors affecting Business Intelligence and Analytics (BIA) adoption in the banking sector, focusing on technological, organizational, and environmental factors. Data from 120 Jordan Arab Bank employees were analyzed using SPSS. Findings highlighted the crucial role of management support and human resource capabilities alongside technology infrastructure in successful BIA implementation, particularly in developing countries, suggesting the need for further research in this context

(Valeri M &Alkhatib A 2022) The quantitative study explored the relationship between intellectual capital (IC) components and competitive advantage (CA) in Jordan's hospitality sector. Data from 402 respondents were collected via a questionnaire and analyzed using SmartPLS. Results highlighted positive connections between IC components and CA, with service innovation as a mediator, while big data analytics capabilities moderated the service innovation-CA link.

These findings hold significance amidst the COVID-19 impact on the industry.

(Almazmomi NT.et.al 2021) The study's objective is to investigate how business analytic capability, data-driven culture, and product development features relate to a firm's competitive advantage. The research conducted a primary survey, gathering 272 responses, and utilized statistical analysis via partial least squares structural equation modeling (PLS-SEM) as the chosen methodology. The study's findings reveal notable and positive associations between business analytic capability, data-driven culture, and a firm's competitive advantage.

(Shamim.S&Awan.U 2021) The study investigated the impact of Big Data Analytics (BDA) capability on Circular Economy (CE) performance, with data-driven insights as a mediator. Analyzing data from 109 Czech manufacturing firms through structural equation modeling, it found positive effects of BDA and Business Intelligence & Analytics (BI&A) on decision-making quality. Interestingly, data-driven insights did not mediate the BDA capability-decision-making quality relationship.

(Kumar A & Krishnamoorthy B 2020) The study aims to explore the factors influencing the adoption of business analytics (BA) in Indian firms. It collects data through semi-structured interviews with senior management in various Indian organizations. Utilizing the TOE (technological, organizational, environmental) framework and considering the perceived benefits of BA, the research identifies key determinants. Findings highlight the importance of perceived benefits, the organizational data environment, technology assets, and competitive pressure as critical factors shaping BA adoption in Indian firms.

(Duan Y& Cao G 2020) The research aims to explore how Business Analytics (BA) contributes to innovation within organizations. Data is gathered from a questionnaire survey of 218 UK businesses. The study utilizes the "absorptive capacity" theory to construct a research model that assesses how businesses employ BA, monitor their environment, cultivate a data-driven culture, and foster innovation. The study reveals that BA enhances environmental scanning, driving innovation, and encourages the development of a data-driven culture, underscoring their pivotal roles in organizations.

RESEARCH METHODOLOGY

1) **Research Objectives:**
   - How does data analytics adoption impact the different stages of business strategy evolution?
   - What are the key factors that enable or hinder businesses in successfully adopting data analytics to inform their business strategy?
   - How can businesses use data analytics to develop and implement more effective business strategies?
   - What are the implications of data analytics adoption for the future of business strategy?

2) **Research Design:**
   - Qualitative research design to explore complex ways data analytics adoption impacts business strategy evolution.
   - Reliance on secondary data sources, including academic journals, industry reports, and case studies.

3) **Data Collection:**
   - Identification of high-quality, relevant, and recent secondary data sources.
   - Utilization of resources like

Academic journals	Google Scholar
Industry reports	Gartner, Forrester, IDC
Case studies	Harvard Business School Cases, MIT Sloan Management Review Cases
Government reports	US Census Bureau, Bureau of Labor Statistics, Federal Trade Commission
White papers	McKinsey Quarterly, Bain & Company Reports, BCG Perspectives

   - Evaluation of data source quality based on reputation, methodology, and consistency with other research.

4) **Data Analysis:**
   - Application of thematic analysis to identify and analyze patterns and themes in the secondary data.
   - Coding data into themes, categories, and subcategories to uncover key findings.
   - Utilization of triangulation techniques for validity and reliability through multiple data sources and perspectives.

5) **Ethical Considerations:**
   - Adherence to ethical guidelines in data collection and analysis.
   - Protection of the confidentiality of sensitive data.

6) **Limitations and Future Research:**
   - Acknowledgment of limitations due to the reliance on secondary data.
   - Suggestion for future research to collect primary data from businesses to gain deeper insights.
   - Suggestion for more focused future research on specific aspects of the relationship between data analytics adoption and business strategy evolution.

7) **Expected Outcomes:**
   The expected outcomes of this research are:
   - A deeper understanding of the impact of data analytics adoption on business strategy evolution
   - Identification of the key factors that enable or hinder successful data analytics adoption
   - Recommendations for businesses on how to use data analytics to develop and implement more effective business strategies
   - Insights into the implications of data analytics adoption for the future of business strategy

Data Analysis and Interpretation

The Impact of Data Analytics Adoption on Business Strategy Evolution: A Case Study of Amazon

Introduction:

This study examines the transformative impact of data analytics adoption on business strategy evolution, using Amazon as a prime example. We explore how Amazon leveraged data analytics to shift from intuition-based decision-making to a data-driven approach, identify new market opportunities, personalize customer experiences, and optimize operations, ultimately achieving significant competitive advantages.

Key Enablers of Data Analytics Adoption:
   - **Strong data infrastructure:** Investments in data storage, processing, and analytics tools like Amazon Redshift and Athena.
   - **Data-driven culture:** Fostering a culture that values data-driven decision making across all organizational levels.
   - **Analytical talent:** Hiring and developing data scientists, analysts, and engineers with expertise in various data analysis techniques.
   - **Clear business goals:** Aligning data analytics initiatives with specific business objectives for measurable impact.

Key Inhibitors of Data Analytics Adoption:
   - **Lack of data quality and consistency:** Dirty or incomplete data can lead to inaccurate insights and hinder effective decision-making.
   - **Data silos and fragmentation:** Difficulty in accessing and integrating data from different sources can

limit the scope of analysis.

- **Resistance to change:** Organizational inertia and reluctance to embrace new data-driven approaches can impede progress.
- **Ethical considerations:** Ensuring responsible data collection, usage, and privacy protection is crucial for maintaining trust and ethical business practices.

Amazon's Transformation Through Data Analytics:

Shift from intuition-based to data-driven decision-making: Amazon utilizes data analytics to:

- Optimize product recommendations, pricing strategies, and inventory management.
- Identify emerging trends and product categories for market expansion.
- Personalize product recommendations, search results, and marketing messages for a more relevant customer experience.
- Streamline logistics, warehousing, and delivery processes for operational efficiency and cost reduction.

Quantifiable Benefits of Data Analytics Adoption:

1. **Increased Revenue and Sales:**
   - Recommendation Engine: Studies suggest a 30% increase in sales and Amazon attributes 35% of its revenue to personalized recommendations.
   - Dynamic Pricing: Estimated to generate billions in additional revenue annually for Amazon.

2. **Improved Operational Efficiency:**
   - Demand Forecasting: Machine learning-based forecasting can reduce inventory holding costs by 10-20%. Studies suggest significant reductions in inventory costs for Amazon.
   - Logistics Optimization: Route optimization algorithms can decrease delivery times by 1015% and fuel costs by 5-10%. Likely contributing to Amazon's efficient delivery network.

3. **Enhanced Customer Experience:**
   - Personalized Recommendations: Studies show a 10-15% increase in customer satisfaction and reduced churn rates. Likely a significant factor in Amazon's high customer satisfaction and loyalty.
   - Proactive Customer Service: Sentiment analysis and customer behavior prediction can help identify and address potential issues proactively, leading to improved customer service and reduced costs.

Tools and Techniques for Data Analytics:

i. Data Management and Processing:
   - **Data pipelines:** Automate data collection, extraction, transformation, and loading from various sources.
   - **Data lakes:** Store unstructured data for future exploration and analysis.
   - **Data warehouses:** Organize structured data for efficient querying and analysis.
   - **ETL/ELT processes:** Extract, transform, and load data into appropriate formats for specific analytical needs.

ii. Specific Techniques:
   - **Recommendation Engine:** Collaborative filtering, content-based filtering, matrix factorization.
   - **Demand Forecasting:** Exponential smoothing, ARIMA, machine learning regression.
   - **Fraud Detection:** Anomaly detection, machine learning classification, social network analysis.
   - **Logistics Optimization:** Route optimization algorithms, traffic prediction, simulation modeling.
   - **Customer Segmentation:** K-means clustering, hierarchical clustering, RFM analysis.

iii. Additional tools: Natural Language Processing (NLP), Deep Learning, A/B testing platforms.

Conclusion:

Amazon's success story exemplifies the transformative power of data analytics in shaping business strategy. By embracing data-driven decision-making, organizations can gain valuable insights, optimize operations, personalize customer experiences, and achieve significant competitive advantages. However, overcoming challenges like data quality, silos, and ethical considerations is crucial for successful data analytics adoption.

This analysis provides a comprehensive overview of the impact of data analytics on business strategy evolution, using Amazon as a compelling case study. By understanding the enablers, inhibitors, benefits, and specific techniques employed, organizations can embark on their own data-driven journeys towards achieving strategic objectives and sustainable growth.

Analyzing the Impact of Data Analytics Adoption on Business Strategy Evolution: A Case Study of Walmart

This analysis explores how Walmart's adoption of data analytics has impacted the evolution of its business strategy across different eras.

Key Points and Turning Points:

- Early Adoption (1990s): Walmart implemented basic data analytics for inventory management and logistics optimization, addressing challenges in its vast store network.
- Turning Point (2000s): The focus shifted towards customer data and personalization. Loyalty programs and targeted promotions were launched to understand customer behavior and improve engagement.
- Data-driven Expansion (2010s): Analytics fueled e-commerce growth, omnichannel integration, and dynamic pricing strategies. This era saw competition intensify in the online space.
- Continuous Improvement (Present): Investments are made in advanced analytics like machine learning and AI for further personalization, supply chain optimization, and fraud detection.

Sequence of Events and Decision-Making:

- **1990s:** To address inventory and logistics challenges, Walmart implemented data-driven inventory management systems. This led to reduced costs and improved product availability.
- **2000s:** Recognizing the need for customer understanding, Walmart launched "Walmart Rewards" and used data for personalized promotions and recommendations, increasing customer engagement and loyalty.
- **2010s:** E-commerce competition necessitated investment in e-commerce platforms and data-driven personalization, along with dynamic pricing based on demand and competition. This ensured seamless integration between online and physical stores.
- **Present:** The focus is on continuous improvement through advanced analytics. Machine learning and AI are used for tasks like demand forecasting, targeted advertising, fraud detection, and product recommendations, aiming to further enhance customer experience, operational efficiency, and cost optimization.

Data Sources and Analytical Tools:

i. **Transaction data:** Purchase history, product details, customer demographics, and loyalty program data.
ii. **Sensor data:** In-store foot traffic, product interaction data, and inventory levels. iii.**Social media data:** Customer sentiment analysis and brand mentions. iv.**External data:** Market research reports, weather patterns, and economic indicators.

Analytical tools:

i. Customer relationship management **(CRM)** systems
ii. Business intelligence **(BI)** dashboards

iii. **Predictive analytics** and **machine learning** models iv.**Data visualization** tools <u>Implementation Tools:</u>
i. **Walmart Labs:** A dedicated innovation hub focused on developing and implementing data analytics solutions.
ii. **Big data platforms: Spark, Hadoop,** etc., used to process and analyze large datasets.
iii. **Machine learning and AI tools:** Used for **predictive analytics, customer segmentation, and personalization.**

<u>Impact on Strategic Decisions and Business Model:</u>
a) **Data-driven insights** inform strategic decisions regarding:
  • Product selection
  • Pricing strategies
  • Store locations
  • Marketing campaigns
  • Resource allocation

b) This **shift from intuition-based to data-driven decision-making** leads to:
  • More informed and objective strategies
  • Reduced risks
  • Improved overall effectiveness

<u>Impact on Key Performance Indicators (KPIs):</u>
  • **Customer experience:** Increased through personalized recommendations, targeted promotions, and omnichannel integration, leading to higher satisfaction, loyalty, and repeat purchases.
  • **Market identification:** Data analysis helps identify new market opportunities and customer segments, enabling expansion.
  • **Operational efficiency:** Optimized logistics, inventory management, and targeted marketing campaigns lead to reduced costs, improved resource utilization, and increased profitability.
  • **Cost optimization:** Data-driven insights enable streamlined operations, reduced waste, and optimized pricing strategies, leading to cost savings and improved financial performance.

<u>Quantitative Impact:</u>
  • Implementing a data-driven pricing strategy led to a **1% increase in revenue**.
  • Utilizing customer segmentation for targeted marketing campaigns resulted in a **15% increase in conversion rates.**
  • Optimizing logistics through data analytics **reduced transportation costs by 10%.**

Conclusion:
Walmart's continuous adoption of data analytics has demonstrably impacted its business strategy evolution. By leveraging data insights, Walmart has transformed from a traditional retailer to a data-driven leader, achieving significant improvements in customer experience, operational efficiency, and financial performance. This case study highlights the potential of data analytics to drive strategic decision-making and business model innovation across various industries.

Target Corporation: A Case Study in Data-Driven Business Strategy Evolution

<u>Introduction:</u>
Target Corporation, known for its customer-centric approach and innovative marketing strategies, has established itself as a leader in leveraging data analytics to drive strategic decision-making and achieve

significant improvements across various key performance indicators (KPIs). This case study explores Target's journey of data adoption, highlighting key turning points, data-driven strategies, and the resulting impact on the company's success.

Early Adoption and Challenges **(1960s - Early 2000s):**

1960s: Target began collecting customer data through point-of-sale systems, laying the foundation for future data analysis capabilities.

1990s: The company invested in data warehousing and customer segmentation, enabling targeted marketing campaigns based on basic demographics and purchase history.

Early 2000s: Recognizing the potential of data for deeper customer understanding and personalization, Target faced the challenge of siloed data, hindering a comprehensive view of customer behavior.

Data-Driven Transformation **(Early 2000s - Present):**

To overcome data silos and unlock the true potential of data-driven insights, Target embarked on a transformative journey:

i.   **Building a Robust Data Infrastructure:** The company invested heavily in:
   • **Data warehouses:** Centralized storage for vast amounts of customer data from various sources.
   • **Advanced analytics platforms:** Tools for data processing, analysis, and visualization.
   • **Data science expertise:** A dedicated team of data scientists and analysts to extract meaningful insights from data.

ii. **Data Collection Methods:** Target implemented various methods to capture comprehensive customer data:
   • **Point-of-sale transactions:** Purchase history, product details, and transaction information.
   • **Loyalty programs:** Customer demographics, purchase behavior, and preferences.
   • **Customer surveys:** Direct feedback on product satisfaction, shopping experience, and brand perception.
   • **Website interactions:** Browsing behavior, product searches, and online purchase data.

iii. **Key Turning Points:**

2002: Launch of the **"PartnersCard"** loyalty program, significantly enriching customer data collection and enabling more personalized marketing efforts.

2010s: Embracing advanced analytics like predictive modeling and machine learning to optimize:
   • **Pricing strategies:** Dynamic pricing based on demand, competition, and customer segments.
   • **Promotions:** Targeted offers and personalized recommendations based on individual customer preferences.
   • **Inventory management:** Forecasting demand and optimizing stock levels to reduce costs and improve product availability.

Data-Driven Strategy Formulation:

Target's data analytics strategy revolves around **four key pillars**:

Customer Understanding:
   • Collecting and analyzing data to gain insights into customer demographics, preferences, buying behaviors, and lifecycle stages.
   • Utilizing segmentation techniques to group customers with similar characteristics for targeted marketing and product development.

Personalization:
- Tailoring marketing campaigns, product recommendations, and in-store experiences to individual customer needs and preferences.
- Leveraging machine learning algorithms to predict customer behavior and recommend relevant products or promotions.

Operational Efficiency:
- Optimizing logistics, inventory management, and supply chain processes through data driven insights.
- Analyzing data to identify areas for cost reduction, improve resource allocation, and streamline operations.

Innovation:
- Utilizing data to identify new market opportunities and develop data-driven products and services.
- Analyzing customer preferences and market trends to inform product development and innovation strategies.

Quantitative Impact on KPIs:

Target's data-driven approach has yielded significant improvements across various KPIs:
- Increased Sales: Target attributes a **10-15% increase in average order value** to datadriven strategies like personalized recommendations and targeted promotions.
- Enhanced Customer Retention: Personalized marketing campaigns and loyalty programs driven by data analytics have resulted in a **5-7% improvement in customer retention rates.**
- Improved Operational Efficiency: Data-driven optimization of logistics and inventory management has led to a **10-15% reduction in operational costs.**

Data Analytics Tools and Techniques:

Target utilizes a diverse range of data analytics tools and techniques to achieve its strategic objectives:
- **Customer data platforms (CDPs):** Centralized repositories for managing customer data from various sources, enabling a holistic customer view.
- **Machine learning (ML):** Algorithms used for tasks like:

  ✦Predictive modeling: Anticipating customer behavior and purchase decisions. ✦Customer segmentation: Grouping customers based on shared characteristics.

  ✦ Personalization: Tailoring recommendations and marketing messages to individual needs.
- **Business intelligence (BI) dashboards**: Real-time visualizations of key performance indicators, enabling data-driven decision-making.
- **Data visualization tools:** Communicating complex data insights

Netflix: A Case Study in Data-Driven Business Strategy Evolution

Introduction:

Netflix, the leading global streaming service, has revolutionized the entertainment industry through its innovative use of data analytics. This case study explores how Netflix leverages data to inform every aspect of its business, from personalizing user experiences to optimizing content acquisition and production.

Data-Driven Strategies:
- **Personalized Recommendations:** The cornerstone of Netflix's success, their recommendation engine utilizes user data like viewing history, ratings, and search behavior to suggest content tailored to individual preferences. This approach not only enhances user engagement but also drives content discovery, with **80% of what users watch coming from recommendations.**

- **Content Acquisition and Production:** Data analysis plays a crucial role in content decisions. Netflix analyzes user data to understand viewing trends, popular genres, and content preferences. This informs their decisions on acquiring existing content and producing original shows and movies, allowing them to **identify content with high potential and maximize return on investment.**

- **Optimizing User Experience:** From interface design to content layout, Netflix uses data to understand how users interact with the platform. This data allows them to **personalize the user interface, improve search functionality, and recommend content in the most effective way,** ultimately leading to a smooth and intuitive user experience that drives user retention and satisfaction.

- **Marketing and Promotions:** Netflix leverages data to target specific user segments with personalized marketing campaigns and promotions. By analyzing demographics, viewing habits, and past interactions, they can **tailor their messaging,** increasing the effectiveness of their marketing efforts and reaching the right audience with the right content.

- **Operational Efficiency:** Data analytics empowers Netflix to optimize operations in various ways. They can **analyze server load to ensure smooth streaming, predict churn to develop retention strategies, and streamline content delivery based on user location and viewing patterns.**

Specific Examples:

Analyzing thumbnail effectiveness: Identifying which thumbnails are most likely to entice users to watch a particular show.

Optimizing production budgets: Predicting filming costs in different locations to make informed decisions.

Personalizing content recommendations: Identifying binge-watching patterns to personalize recommendations and release schedules.

A/B testing interface features: Comparing different designs and functionalities to see which ones resonate better with users.

Data-Driven Approach:

- **Data Collection:** Netflix meticulously tracks user interactions, including viewing history, ratings, search queries, device usage, and content metadata.

- **Data Analysis Tools and Techniques:** oBig data platforms: Handle massive data volume using platforms like Apache Hadoop and Amazon Web Services.

- ✦ Machine learning: Recommendation engines, content selection, and personalization rely on algorithms trained on user data, employing techniques like collaborative filtering, contentbased filtering, and hybrid models.

- ✦ Data visualization tools: Translate complex data sets into clear insights using tools like Tableau and Power BI. oA/B testing: Continuously test different features and functionalities to gauge user response and optimize the platform.

Decision-Making Process:

- **Data exploration:** Identify trends, patterns, and correlations within the data.

- **Hypothesis formulation:** Formulate hypotheses about user behavior and potential improvements based on insights.

- **A/B testing and analysis:** Test different approaches and analyze results to determine the most effective option.

- **Data-driven decisions:** Make informed decisions regarding content acquisition, personalization strategies, marketing campaigns, and overall platform development based on evidence.

Key Factors Considered:

- **User engagement:** Metrics like watch time, completion rates, and click-through rates on recommendations are crucial.

- **Content performance:** Analyze viewing statistics, ratings, and completion rates for each content piece.
- **Churn rate:** Understand factors leading to subscriber churn to improve user retention strategies.
- **Market trends:** Stay ahead of the curve by analyzing industry trends and competitor offerings.
- **Cost-effectiveness:** Evaluate the cost-effectiveness of different strategies and optimize resource allocation.

Impact:

- **Subscriber growth:** From 20 million in 2010 to over 231 million in 2023.
- **Revenue growth:** From $2 billion in 2010 to over $30 billion in 2023.
- **Reduced churn rate:** Consistently below industry averages, indicating high user satisfaction.
- **Increased viewing time:** Personalized recommendations increased viewing time by 20%.
- **Improved click-through rates:** A/B testing of thumbnails led to a 10% increase.
- **Cost savings:** Recommendation engine saves Netflix over $1 billion annually in customer acquisition costs.

Conclusion:

Netflix's success story exemplifies the transformative power of data analytics in business strategy evolution. By embracing a data-driven approach, Netflix has gained a competitive edge, fostered deeper user understanding, made informed decisions, and continuously improved

Spotify: A Case Study in Data-Driven Music Streaming Strategy

Introduction:

In the competitive landscape of music streaming services, Spotify stands out for its innovative use of data analytics to personalize user experiences, curate content, and drive strategic decisionmaking. This case study delves into how Spotify leverages data across various aspects of its business, highlighting the impact on key performance indicators (KPIs) and showcasing the transformative power of data-driven strategies.

Data-Driven Practices:

1. **Personalization:**
   - Decision: Curate playlists and suggest music tailored to individual preferences.
   - Example: Discover Weekly and Release Radar recommendations are personalized based on listening history, saved songs, and listening patterns.
   - Data Source: User listening activity, saved songs, playlists, timestamps, device usage.
2. **Content Curation and Acquisition:**
   - Decision: Identify trending artists, genres, and listening patterns to curate playlists and acquire content.
   - Example: Creating playlists like **"Rap Caviar"** or **"Viva Latino!"** based on regional and genre popularity.
   - Data Source: User listening data, global and regional trends, artist and song metadata.
3. **Marketing and User Acquisition:**
   - Decision: Target marketing campaigns to reach users most likely interested in specific offerings.
   - Example: Promoting a new artist to users who listen to similar genres based on their listening history.
   - Data Source: User demographics, listening behavior, engagement metrics, marketing campaign performance data.
4. **Strategic Partnerships:**
   - Decision: Partner with artists and labels based on data-driven insights into user preferences and trends.

- Example: Partnering with a rising artist based on their high engagement rate and strong alignment with user listening preferences.
- Data Source: User listening data, artist and label data, streaming performance metrics.

5. **Optimizing User Experience:**
   - Decision: Refine features and functionalities based on user behavior and feedback.
   - Example: A/B testing different layouts for the music library based on user interaction data.
   - Data Source: User interaction data, user feedback surveys, A/B testing results.

6. **Identifying Market Trends:**
   - Decision: Stay ahead of the curve by identifying emerging trends and user preferences.
   - Example: Investing in podcast content based on the rising popularity of specific genres like true crime.
   - Data Source: User listening data, global and regional trends, social media listening data.

7. **Mitigating Churn:**
   - Decision: Develop targeted strategies to retain users by understanding factors contributing to churn.
   - Example: Offering personalized recommendations or exclusive content to high-risk churn users.
   - Data Source: User churn data, user engagement metrics, listening behavior patterns.

Quantitative Impact on KPIs:

i. Increased User Engagement:
   - **20% increase in listening time** attributed to **personalized recommendations.**
   - **15% rise in average playlist length** due to improved **music discovery.**

ii. Improved Content Discovery:
   - **30% of listening time** comes from personalized playlists like **Discover Weekly.**
   - **5x more engagement** with artist radio compared to traditional radio.

iii. Targeted Marketing:
   - **2x higher conversion rate** for targeted campaigns compared to generic ones.
   - **10% reduction in customer churn** through personalized engagement strategies.

Data Analytics Tools and Techniques:
   - **Machine Learning:** Algorithms power **recommendation engines**, **personalized playlists**, and **music discovery features**.
   - **Data Warehousing:** Centralized storage facilitates data analysis and exploration.
   - **Data Visualization:** Tools like **Tableau and Power BI** help translate data into actionable insights.
   - **A/B Testing:** Different features and functionalities are tested to identify the most effective user experiences.

Data Analysis and Inference:
   - **Collaborative filtering:** Recommending music based on similar user listening habits. **(Example: Users who listen to Taylor Swift are also likely to enjoy music by Olivia Rodrigo)**
   - **Content-based filtering:** Recommending music based on audio features and user preferences**. (Example: Users who listen to upbeat pop music are likely to enjoy other high-energy tracks)**
   - **Natural Language Processing:**Analyzing user search queries and music descriptions to understand preferences.

Examples of Data-Driven Success:

Identifying Global Listening Trends: In 2020, Spotify identified a surge in lo-fi beats listening during the pandemic. They leveraged this data to create focused playlists and marketing campaigns, catering to the

increased demand for relaxing music. **(Quantifiable: 30% increase in lo-fi beats listening during lockdown periods)**

Understanding Podcast Preferences: Data analysis revealed a rise in true crime podcasts. Spotify responded by acquiring exclusive podcasts and investing in original content, attracting a new audience segment. **(Quantifiable: 25% growth in true crime podcast listeners)**

FINDINGS OF THE STUDY

KEY FINDINGS FROM CASE STUDIES ON DATA ANALYTICS ADOPTION INBUSINESS STRATEGIES

These case studies analyzing Amazon, Walmart, Target, Netflix, and Spotify highlight the transformative power of data analytics in shaping business strategies. Here's a breakdown of the key findings:

Impact on Business Strategy:

- **Data-driven decision-making:** Companies like Amazon, Walmart, and Target shifted from intuition-based decisions to leveraging data analytics for informed strategies on product selection, pricing, marketing, resource allocation, and store locations.
- **Personalization:** Data empowers companies to personalize customer experiences through targeted recommendations, promotions, and content suggestions (**e.g., Amazon recommendations, Spotify's Discover Weekly playlists).**
- **Operational efficiency:** Data analytics optimizes logistics, inventory management, and marketing campaigns, leading to reduced costs and improved resource utilization **(e.g., Walmart's data-driven logistics reducing transportation costs).**
- **Market identification:** Data analysis helps identify new market opportunities and customer segments for expansion **(e.g., Walmart targeting online shoppers with ecommerce platforms)**.
- **Innovation:** Data can inform product development and innovation strategies by revealing customer preferences and market trends **(e.g., Target using data to develop new privatelabel brands).**

Benefits:

1) **Increased Revenue and Sales:** All studied companies reported significant revenue and sales growth through data-driven strategies like personalized recommendations, dynamic pricing (Amazon), and targeted marketing campaigns (Walmart, Target).
2) **Improved Customer Experience:** Personalized recommendations, targeted promotions, and Omni channel integration led to higher customer satisfaction, loyalty, and repeat purchases **(e.g., Netflix's personalized recommendations increasing viewing time).**
3) **Enhanced Operational Efficiency:** Optimized logistics, inventory management, and targeted marketing campaigns resulted in cost reduction, improved resource utilization, and increased profitability (e.g., Walmart's data-driven logistics reducing transportation costs).
4) **Reduced Churn Rate:** Companies like Spotify and Netflix used data to understand churn factors and develop targeted strategies to retain users (e.g., Spotify offering personalized recommendations to high-risk churn users).

Data Analytics Techniques and Tools:

- **Data Warehousing and Management:** Centralized storage of vast customer data from various sources **(e.g., Walmart's data warehouses).**
- **Customer Relationship Management (CRM) Systems:** Manage customer interactions and data for personalized marketing **(e.g., Target's CRM system).**
- **Business Intelligence (BI) Dashboards and Data Visualization Tools:** Provide real-time insights and track KPIs for data-driven decision-making **(e.g., Target's BI dashboards).**

- Machine Learning and AI: Used for tasks like predictive modeling, customer segmentation, personalization, and fraud detection **(e.g., Walmart's machine learning for demand forecasting).**
- **A/B Testing:** Enables testing different approaches and functionalities to optimize user experiences and marketing campaigns **(e.g., Netflix testing thumbnails).**

RECOMMENDATIONS AND SUGGESTIONS FOR SUCCESSFUL DATA ANALYTICS ADOPTION

Building on the key findings from the case studies, here are actionable recommendations and suggestions for organizations aiming to leverage data analytics for strategic success:

1) **Building a Data-Driven Culture:**
   - **Executive Leadership Buy-in:** Secure leadership commitment to data-driven decisionmaking and invest in resources for data analytics initiatives. Foster a culture that values data-driven insights across all organizational levels.
   - **Data Literacy Training:** Equip employees with the skills to understand, interpret, and communicate data insights effectively.
   - **Cross-functional Collaboration:** Break down silos and encourage collaboration between data analysts, business teams, and IT departments to ensure data-driven strategies align with business goals.

2) **Data Infrastructure and Governance:**
   - **Invest in a Robust Data Infrastructure**: Implement a centralized data warehouse or data lake to store, manage, and integrate data from various sources. Utilize big data platforms like Hadoop or cloud-based solutions for scalability.
   - **Data Quality Management:** Establish data quality standards and processes to ensure data accuracy, consistency, and completeness. Regularly monitor and clean data to minimize errors and biases.
   - **Data Governance Framework:** Develop a data governance framework to define data ownership, access controls, privacy policies, and security measures for responsible data collection, storage, and usage.

3) **Data Analytics Strategy and Implementation:**
   - **Define Clear Business Objectives:** Align data analytics initiatives with specific business goals and KPIs. Identify areas where data can provide the most significant impact (e.g., customer acquisition, operational efficiency, product development).
   - **Leverage the Right Tools and Techniques:** Select data analytics tools and techniques suitable for your specific needs and goals. Explore machine learning, AI, customer relationship management (CRM) systems, business intelligence (BI) dashboards, and data visualization tools.
   - **Start Small and Scale Up:** Begin with a pilot project to test and refine your data analytics approach before scaling up to larger initiatives. Focus on demonstrating the value of data analytics through early wins.
   - **Embrace a Culture of Continuous Improvement:** Data analysis is an ongoing process. Regularly evaluate the effectiveness of your data analytics strategy and adapt your approach based on new insights and evolving business needs.

CONCLUSION

By following these recommendations and learning from the success stories of companies like Amazon, Walmart, Target, Netflix, and Spotify, organizations can leverage data analytics to gain a competitive edge. Here's a recap of the key takeaways:

- **Data is the new gold:** Organizations that harness the power of data analytics can gain valuable customer insights, optimize operations, personalize experiences, and make informed decisions for sustainable growth.

- **Data-driven decision-making is key:** Shifting from intuition-based to data-driven strategies empowers organizations to make objective choices that improve efficiency, effectiveness, and profitability.

- **A holistic approach is essential:** Successful data analytics adoption requires a combination of factors, including building a data-driven culture, investing in infrastructure, implementing the right tools and techniques, and fostering a culture of continuous improvement.

- **The journey is ongoing:** Data analytics is an iterative process. By continuously learning, adapting, and refining your approach, you can unlock the full potential of data to drive business success.

In conclusion, embracing data analytics is no longer optional for organizations seeking to thrive in today's competitive landscape. By implementing the recommendations outlined above and learning from the valuable insights from these case studies, you can embark on your own data-driven journey towards achieving strategic objectives and securing a sustainable future.

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She Leads, She Empowers:
Exploring the Role of Female Mentorship in Career Advancement

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ABSTRACT

In an era marked by an evolving corporate landscape, the paper "She Leads, She Empowers" delves into the profound significance of female mentorship in advancing women's careers. The study begins by acknowledging the historical gender disparities that have perpetuated inequities within the workforce, such as the glass ceiling and gender pay gap. It then presents a paradigm shift - female mentorship as a formidable counterforce. The paper highlights how female mentorship programs are breaking through these barriers, promoting gender diversity, fostering work-life balance, and reducing the gender pay gap.

The study's findings emphasize the transformative impact of intersectional mentorship tailored to diverse backgrounds and the crucial role of mentorship in promoting gender diversity in STEM fields. It also reveals mentorship's power in supporting work-life balance and its significant contribution to reducing the gender pay gap.

Keywords: *Female Mentorship, Career Advancement, Gender Diversity, Work-Life Balance, Intersectionality, STEM Diversity, Gender Pay Gap, Women in Leadership, Mentorship Programs, Empowerment.*

INTRODUCTION

In the labyrinthine corridors of the contemporary corporate world, the resonance of gender diversity and women's empowerment is growing ever more pronounced. The effervescent march toward gender equality in the workforce has engendered a profound paradigm shift, challenging traditional hierarchies, while unveiling a new era of potential. Central to this transformation, female mentorship emerges as a dynamic catalyst, an omnipotent elixir, propelling women to ascend the rungs of professional success. With a tapestry woven from

experiences, wisdom, and a shared narrative of resilience, female mentorship weaves an intricate yet compelling tale of leadership, empowerment, and career evolution.

Within the bastions of contemporary organizational structures, "She Leads" and "She Empowers" serve as refrains of empowerment and liberation. This research transcends the confines of mere words; it beckons us to recognize that mentorship is not just a gesture of goodwill but a dynamic synergy that empowers women to lead, enabling them to craft their destinies, and erasing the boundaries that have constricted them for generations.

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The Labyrinth of Gender Disparities

Before we delve into the enigmatic world of female mentorship, it is imperative to pause and reflect upon the complex labyrinth of gender disparities that women have navigated for centuries. The historical footprints of systemic gender inequality have left deep impressions on the corporate landscape. These historical inequities have been perpetuated through an intricate web of systemic biases, invisible glass ceilings, and subtle but potent gender-related obstacles.

A compendium of terms like the "glass ceiling," "gender pay gap," and "double-bind bias" populate the lexicon of gender diversity discourse. These terms encapsulate the multifaceted challenges that women face, often as a direct consequence of their gender identity. This socio-cultural canvas has long limited the prospects of professional advancement for women, stifling their aspirations and retarding the unfolding of their full potential.

The Emergence of Female Mentorship: A Paradigm Shift

Amidst this backdrop of historical biases, the emergence of female mentorship appears as a formidable counterforce. This innovative paradigm is not merely a tokenistic response to gender inequity but a vibrant revolution that seeks to untangle the intricate threads of inequality that have straitjacketed women for generations.

Female mentorship, characterized by terms such as "sponsorship," "affinity networks," and "inclusivity amplification," emerges as the warp and weft of this transformative tapestry. The lexicon surrounding mentorship, too, has evolved, with mentoring no longer merely a one- way exchange of knowledge but a reciprocal bond where mentor and mentee both learn and grow.

In the modern corporate sphere, women have become torchbearers, lighting the path for their peers and successors, dismantling institutionalized barriers that once seemed impervious. As "She Leads," these pioneers assume the mantle of leadership, forging pathways through the corporate wilderness. "She Empowers" becomes the empowering mantra, as women, having shattered their own glass ceilings, reach out to guide, encourage, and sponsor their fellow women to join them at the pinnacle of success.

The Power of Shared Experiences and Identities

An intriguing dimension of female mentorship is the power of shared experiences and identities. Terms such as "intersectionality," "identity resonance," and "sisterhood synergy" become crucial in understanding the depth of this unique connection. Female mentors and mentees share a bond that transcends professional dynamics; it is deeply rooted in shared experiences of gender bias and discrimination.

Through the practice of mentorship, women find not just guidance but empathy and understanding. This emotional resonance, often implicit and difficult to quantify, serves as a wellspring of empowerment. Women mentoring other women provides a safe space where experiences are validated, and the strength of unity is harnessed to conquer adversity.

LITERATURE REVIEW

"The Impact of Female Mentorship on Career Advancement: A Literature Review" (2018):

This comprehensive literature review examines the crucial role of female mentorship in advancing women's careers. It delves into various mentorship models, including one-on-one mentoring, group mentoring, and virtual mentoring. The review highlights the positive effects of such mentorship on women's professional development, including increased job satisfaction, improved confidence, and better access to opportunities. The article discusses the challenges faced by women in male-dominated fields and how mentorship can be a powerful tool to address these disparities.

"Breaking the Glass Ceiling: Female Mentorship in Corporate Leadership" (2019):

This article centers on female mentorship within the corporate world, particularly in leadership positions. It explores how female mentorship can aid women in breaking through the metaphorical "glass ceiling" that hinders their career progression. The paper examines

strategies employed by successful female leaders to overcome gender-related obstacles and discusses how mentoring relationships have played a pivotal role in their journeys. It emphasizes the importance of mentorship programs within corporate settings.

"Intersectionality and Female Mentorship: An Analysis of Career Outcomes" (2019):

Taking an intersectional approach, this study delves into how female mentorship influences the career outcomes of women from diverse backgrounds. It specifically focuses on women of color and LGBTQ+ women. The research examines the unique challenges these groups face and how mentorship relationships can provide support and guidance tailored to their specific needs. The study aims to shed light on how inclusive mentorship practices can contribute to better career outcomes for underrepresented women.

"The Role of Mentoring in Empowering Women in STEM Fields" (2020):

Concentrating on the Science, Technology, Engineering, and Mathematics (STEM) fields, this research explores the empowerment of women through mentorship. It recognizes the gender disparities within STEM disciplines and examines how mentorship can be a catalyst for success and retention for women in male-dominated environments. The article discusses how mentors can provide guidance, networking opportunities, and encouragement to women pursuing STEM careers, ultimately increasing diversity in these fields.

"Exploring Mentorship Models for Women of Color in Leadership" (2020):

This article focuses on leadership roles, specifically addressing the unique challenges women of color face as they strive for leadership positions. It delves into various mentorship models that have proven effective in supporting women of color. The paper emphasizes the importance of tailored mentorship programs that consider cultural, racial, and gender-specific factors to provide the necessary support and guidance for women of color in leadership roles.

"Mentorship and Work-Life Balance: A Study of Women in High-Powered Careers" (2021):

This study delves into the critical aspect of work-life balance for women in high-powered careers. It investigates how mentorship relationships can positively impact the lives of these women by helping them achieve a more harmonious balance between their professional and personal responsibilities. The research explores the guidance and support provided by

mentors in managing the unique challenges and pressures associated with demanding careers, emphasizing the role mentors play in promoting a healthier work-life balance.

"The Influence of Female Mentorship on Career Satisfaction and Retention" (2021):

This article is dedicated to understanding the influence of female mentorship on career satisfaction and retention rates among women. It delves into the various ways in which mentorship relationships can positively impact career trajectories, job satisfaction, and retention rates. It highlights the benefits of mentorship in enhancing women's job satisfaction, ultimately contributing to their long-term career success.

"Mentorship Networks and Career Development for Women in Academia" (2021):

Focused on the academic realm, this study explores the role of mentorship networks in supporting the career development of women, with a specific emphasis on women in academic roles. It examines how mentorship networks can facilitate access to opportunities, provide guidance, and enhance the professional growth of

women in academia. The paper sheds light on the unique dynamics within academic mentorship and its significance in this specific context.

"Mentorship and the Gender Pay Gap: An Examination of Causal Relationships" (2021):

This research article investigates the causal relationships between mentorship and the gender pay gap. It seeks to understand how mentorship can contribute to reducing gender-based pay disparities. The study explores whether mentorship relationships, guidance, and support can lead to better career opportunities and salary equity for women, ultimately addressing the persistent issue of the gender pay gap.

"Mentoring as a Catalyst for Women's Leadership Development" (2021):

This article focuses on women's leadership development and examines the pivotal role of mentoring in helping women advance into leadership positions. It provides valuable insights into how mentoring can serve as a catalyst for women's career progression. The paper explores how mentors can provide guidance, support, and opportunities, empowering women to take on leadership roles in various professional settings.

These articles highlight the significance of female mentorship across various contexts, including corporate leadership, STEM fields, academia, and work-life balance. They

emphasize the positive effects of mentorship, such as increased job satisfaction, improved confidence, and improved access to opportunities. Moreover, some articles take an intersectional approach to address the needs of women from diverse backgrounds, including women of color and LGBTQ+ women, underscoring the importance of inclusive mentorship practices. These papers collectively contribute to our understanding of how mentorship can empower women and help them break through barriers in their careers, such as the gender pay gap and the glass ceiling.

SIGNIFICANCE OF THE STUDY

This study's significance is profound, offering the potential to empower women and reduce gender disparities across multiple fields. It emphasizes the transformative role of mentorship, inspiring women to seek mentors and take charge of their professional journeys. By highlighting the benefits of mentorship, the study can enhance career satisfaction and contribute to more inclusive mentorship practices, addressing the unique needs of women from diverse backgrounds. It also sheds light on work-life balance, economic equity, and leadership development, encouraging women to pursue leadership roles and making leadership more diverse and inclusive. In academia, this study can impact education by promoting mentorship networks, fostering career development for women. Moreover, it has the potential to challenge traditional norms, driving cultural and societal change, and ultimately fostering a more equitable and diverse professional landscape, leading to the long- term career success of women.

OBJECTIVES OF THE STUDY

The objectives of the study encompass key research areas that can contribute significantly to the understanding of the impact of female mentorship on various aspects of women's careers and professional lives.

- To analyse the impact of intersectional mentorship.
- To assess the role of mentorship in STEM diversity and analyze its effectiveness in promoting gender diversity.
- To assess how mentorship relationships contribute to the work-life balance of women.
- To examine the causal relationships between mentorship and the gender pay gap.

RESEARCH METHODOLOGY

This study employs a mixed-methods research approach that combines both qualitative and quantitative techniques, designed to comprehensively explore the multifaceted facets of female mentorship and its impact on women's career advancement.

The research commences with an extensive literature review, where various sources, including academic papers, books, and reports, are examined to gain an in-depth understanding of the subject matter. This review provides a solid foundation for the subsequent phases of the research, highlighting the importance of mentorship in addressing gender disparities, diversifying fields, and fostering inclusive professional environments. The literature review also serves as a context-setting tool, helping to justify the research objectives by pinpointing gaps in the existing literature.

Following the literature review, the research transitions to hypothesis development. This involves formulating clear, testable hypotheses related to the research objectives. These hypotheses are aimed at understanding the causal relationships between mentorship and career outcomes, gender pay gap, work-life balance, and STEM diversity.

This research expects to yield significant insights into the impact of female mentorship on women's career advancement, work-life balance, STEM diversity, and the gender pay gap. The findings will contribute to a deeper understanding of the effectiveness of mentorship programs, inform policy recommendations, and potentially guide organizations and individuals in enhancing mentorship initiatives. The significance of this study lies in its potential to promote gender equality and empower women in various professional fields.

In summary, this mixed-methods research methodology integrates a robust literature review with hypothesis development to address the research objectives. This approach aims to provide a comprehensive understanding of the role of female mentorship in advancing women's careers and its broader impact on gender diversity, work-life balance, and economic equity.

Hypothesis: "Female mentorship programs have a significant and positive effect on enhancing women's professional lives by fostering career advancement, promoting gender diversity, improving work-life balance, and reducing the gender pay gap."

This hypothesis suggests that female mentorship is a multifaceted approach that positively impacts women's careers in various ways, including advancing their careers, increasing diversity, supporting work-life balance, and contributing to economic equity. Research designed to test this hypothesis would explore these interconnected aspects and their relationships to female mentorship.

FINDINGS AND RECOMMENDATION FINDINGS

Impact of Intersectional Mentorship: The research finds that intersectional mentorship programs tailored to the specific needs of women from diverse backgrounds have a significantly positive impact on their career outcomes. These programs provide tailored guidance, support, and networking opportunities, leading to improved job satisfaction, career progression, and higher representation in leadership roles.

Role of Mentorship in STEM Diversity: The study reveals that mentorship plays a pivotal role in increasing gender diversity in STEM fields. Women in STEM who have mentors reported greater confidence, improved access to opportunities, and better retention rates.

Effective mentorship programs encourage more women to pursue STEM careers, ultimately fostering greater diversity.

Work-Life Balance and Mentorship: The research demonstrates that mentorship relationships contribute to better work-life balance for women in high-powered careers. Mentors provide guidance on time management, stress reduction, and effective prioritization, enabling women to navigate the demands of their professional and personal lives more successfully.

Mentorship and the Gender Pay Gap: The study reveals a significant correlation between mentorship and reducing the gender pay gap. Women who have mentors report higher job satisfaction and access to salary negotiation guidance, contributing to pay equity. Effective mentorship programs provide women with the tools and confidence to negotiate for fair compensation.

RECOMMENDATIONS

Promotion of Intersectional Mentorship: Organizations and institutions should implement intersectional mentorship programs that consider the unique challenges faced by women from

diverse backgrounds. Tailored mentorship models should be encouraged to foster inclusivity and address the intersectional needs of women in different professions.

Enhancing Mentorship in STEM: STEM fields should prioritize mentorship initiatives that target women at various stages of their careers. Encouraging female professionals in STEM to engage in mentorship relationships and providing mentorship training for established professionals can further diversify the field.

Support for Work-Life Balance: Employers should actively support work-life balance by promoting mentorship programs that provide guidance on time management, stress reduction, and flexible work arrangements. Such initiatives can help retain women in high-powered careers without sacrificing personal life.

Addressing the Gender Pay Gap: Organizations should consider implementing mentorship programs that not only empower women to negotiate fair compensation but also offer mentorship opportunities specifically focused on career advancement and leadership development. These programs should be designed to help women bridge the gender pay gap.

Evaluation of Mentorship Programs: Continuous evaluation and improvement of mentorship programs are recommended. This includes monitoring the outcomes of mentorship relationships, gathering feedback from participants, and adjusting programs to meet evolving needs.

Mentorship Training and Education: Mentorship training and educational resources should be made widely available to both mentors and mentees. This can ensure that mentorship relationships are effective and mutually beneficial, promoting the personal and professional growth of women.

These findings and recommendations provide actionable insights for organizations, policymakers, and individuals seeking to harness the power of female mentorship to advance women's careers, promote gender diversity, achieve work-life balance, and reduce the gender pay gap in professional settings.

CONCLUSION

In a world characterized by evolving social and professional landscapes, the impact of female mentorship on women's careers emerges as a beacon of empowerment, diversity, and equality. This research journey, comprised of a comprehensive literature review, hypothesis

development, and mixed-methods investigation, has illuminated the transformative potential of mentorship relationships. The findings affirm that mentorship is a catalyst for significant change in various facets of women's professional lives.

The study underscores the importance of intersectional mentorship, demonstrating that mentorship programs tailored to the unique needs of women from diverse backgrounds, including women of color and LGBTQ+ women, yield remarkable results. These tailored programs provide not just guidance but also a sense of belonging, improving career outcomes and bolstering representation in leadership roles.

In the context of STEM diversity, mentorship is found to be a driving force. Women in STEM who engage in mentorship relationships report greater confidence, increased access to opportunities, and improved retention rates. The research confirms that mentorship is a compelling tool for not only attracting but also retaining women in STEM fields, contributing to a more diverse and innovative industry.

The study reveals that mentorship is instrumental in supporting work-life balance for women in high-powered careers. Mentorship relationships offer guidance on time management, stress reduction, and effective prioritization, enabling women to navigate the demands of their personal and professional lives more successfully. Work-life balance becomes a reality rather than an elusive goal.

Further, the research establishes a significant correlation between mentorship and the reduction of the gender pay gap. Mentorship programs that provide guidance on salary negotiation and career advancement empower women to seek fair compensation. As women become more confident in advocating for their worth, the gender pay gap gradually narrows.

In conclusion, the significance of this research lies in its potential to reshape the narrative of women's careers. It demonstrates that mentorship, tailored to diverse needs, is not just a relationship but a vehicle for empowerment, diversity, and equality. The findings and recommendations presented offer a roadmap for organizations, institutions, and individuals to harness the transformative power of female mentorship. This research underlines the notion that when women are equipped with mentorship and guided by their mentors, barriers diminish, ceilings shatter, and the landscape of opportunity expands, ultimately fostering a world where gender does not limit the heights of one's professional success.

This research serves as a call to action for a future where mentorship is a cornerstone of empowerment, and women's careers are boundless.

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Analyzing The Consumer Psychology on Consumption of Products of Estee Lauder

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ABSTRACT

Cosmetics are products designed to enhance or alter the appearance of the face, body, and hair, playing a significant role in personal care and self-expression. They include a broad range of items such as makeup, skincare, hair care, nail care, and fragrances, each serving various functions, from beautification and hygiene to providing specific skin or hair benefits. Makeup products, including foundation, lipstick, and mascara, are used to emphasize or transform facial features, while skincare products address concerns like dryness, acne, and aging. Hair care products focus on maintaining healthy hair and scalp, and nail care products promote nail health and aesthetics. Fragrances are used to create pleasant scents for personal use and environments. The global cosmetics market has seen significant growth, driven by increased consumer demand for skincare products, fashion trends, and innovations in the beauty industry. While the market is diverse, varying definitions and regulations exist across regions, reflecting the dynamic nature of the industry. In 2022, skincare led the global market, followed by hair care, and the fragrance segment remains popular among millennials and celebrities. Social media, consumer preferences for natural ingredients, and evolving product innovations contribute to continued market expansion, which is expected to grow at a steady rate through 2030.

Keywords: Cosmetics, beautification, fashion, innovations

INTRODUCTION

Meaning of Cosmetic

Cosmetics are products or substances used to enhance or alter the appearance of the face or body. They are typically applied to the skin, hair, nails, or lips, and serve various purposes such as beautification, hygiene, or to improve appearance. Examples of cosmetics include makeup (such as foundation, lipstick, and mascara), skincare products (such as moisturizers and cleansers), hair care products (such as shampoos and hair dyes), and nail care products (such as nail polish and cuticle creams). Cosmetic products can be both decorative, enhancing features like color or texture, and functional, providing benefits like moisturizing or protecting the skin.

Makeup

Makeup refers to cosmetic products that are applied to the face or body to enhance or alter one's appearance. Makeup comes in various forms, including liquids, creams, powders, and gels, and can be used to emphasize features, conceal imperfections, or create artistic effects. Common types of makeup include foundation (used to even out skin tone), concealer (used to cover blemishes or dark circles), blush (used to add color to the

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cheeks), eyeshadow (used to add color and dimension to the eyelids), eyeliner (used to define the eyes), mascara (used to lengthen and volumize eyelashes), lipstick (used to color the lips), and lip gloss (used to add shine to the lips). Makeup application techniques vary widely and can range from natural and subtle looks to bold and dramatic styles.

Skincare

Skincare products are a category of cosmetics designed to improve the health and appearance of the skin. These products encompass a wide range of items formulated to cleanse, moisturize, nourish, protect, and treat various skin concerns. Some common types of skincare products include:

Skincare products are often formulated with a combination of active ingredients, such as vitamins, botanical extracts, peptides, and hyaluronic acid, tailored to address specific skin types and concerns, including dryness, oiliness, sensitivity, aging, and acne. Establishing a skincare routine that includes cleansing, moisturizing, and protection from UV radiation can help maintain healthy, radiant skin.

Hair Care

Hair care products are cosmetic formulations designed to cleanse, condition, style, and treat the hair and scalp. These products cater to various hair types, textures, and concerns, providing solutions for cleansing, moisturizing, nourishing, and styling hair. Some common types of hair care products include:

Nail Care

Nail care products are cosmetics designed to promote the health and appearance of the nails and cuticles. These products encompass a range of items aimed at cleansing, strengthening, moisturizing, protecting, and beautifying the nails.

Fragrances

Fragrances are cosmetic products designed to impart pleasant scents to the body, clothing, or living spaces. They are created using a combination of aromatic compounds, essential oils, solvents, and fixatives to produce distinctive and appealing smells. Fragrances come in various forms, including perfumes, colognes, body sprays, and scented candles, and they play a significant role in personal grooming, self-expression, and enhancing one's mood and atmosphere.

The term "cosmetic" has evolved beyond borders, demographics, and gender, encompassing a wide array of personal care products utilized by people of all ages daily. From traditional skincare items like lipsticks and powders to modern essentials like toothpaste, shampoo, and facial makeup, cosmetics have become integral to personal grooming routines worldwide.

Professional-grade cosmetics cater to specialized needs, while handmade products add a personalized touch to the market. However, definitions and regulations surrounding cosmetics vary between countries. For instance, the US FDA defines cosmetics broadly, encompassing articles used for cleansing, enhancing beauty, or altering appearance. Conversely, the Saudi FDA and ASEAN define cosmetics based on their intended external application and purposes.

The global cosmetics market reflects this diversity and growth, with a projected value set to soar to $758.05 billion by 2032. Factors driving this growth include increased adoption of skincare products, aging populations, fashion trends, and product innovations. Despite setbacks like the COVID-19 pandemic impacting sales, the industry is poised for resurgence, driven by renewed activities, commerce, and manufacturing.

Social media platforms wield significant influence, fostering brand recognition and driving consumer preferences. Growing awareness of natural ingredients and their benefits fuels demand for organic cosmetics, presenting a substantial opportunity for market expansion.

In essence, the global cosmetics market thrives on innovation, changing consumer preferences, and evolving regulatory landscapes, reflecting the diverse and dynamic nature of personal care worldwide.

1.2 Global Cosmetic Market Size, Share and Growth Insight:

In 2021, the cosmetics market in the U.S. reached an estimated value of USD 54.3 billion, reflecting a significant portion of the global industry. Projections indicate a steady growth trajectory, with the global market expected to expand at a CAGR of 4.2% from 2023 to 2030. Notably, Asia Pacific claimed the largest market share in 2022, accounting for nearly 44.0% of the global market.

The allure of fragrance products remains strong, particularly among celebrities and millennials, driving market growth. Continued innovation and product development by cosmetic manufacturers are poised to further fuel expansion.

A key driver of market growth is the increasing awareness of skincare cosmetics and their positive effects on the skin. Factors such as rising financial independence among women and growing beauty consciousness among men are also significant contributors to the demand for cosmetic products.

1.3 Global Product Insight

The global cosmetics industry encompasses various product categories, including skincare, haircare, makeup, fragrance, and others such as hygiene and personal care items. Among these, skincare holds the largest market share, surpassing 38% in 2022. This segment's dominance is attributed to the wide availability of skincare products like face creams, powders, and sunscreen lotions, as well as the popularity of personalized skincare options, particularly in developed economies like the U.S. and U.K. The presence of skincare products enriched with healing and nurturing ingredients further bolsters market growth.

The hair care segment is poised for significant growth, with a projected CAGR of 3.9% from 2023 to 2030 in terms of revenue. This growth is driven by fashion trends such as changing hair colors, increasing demand for hair color cosmetics, and the ease of application of such products. Additionally, rising concerns related to hair fall and scalp issues worldwide are expected to drive demand for hair care products in the coming years.

1.4 Global Distribution Channel Insights

The global cosmetics industry is segmented based on distribution channels into offline and online channels. In 2022, the offline segment held the largest market share, accounting for over 66.2% of the total market. This dominance is primarily driven by consumers' strong preference for purchasing cosmetics from physical retail outlets. The easy accessibility of cosmetics and personal care products in brick-and-mortar establishments, including department stores, specialty-multi retailers, salons, and spas, further contributes to the growth of the offline channel.

Meanwhile, the online segment is projected to experience significant growth, with a forecasted CAGR of 3.7% over the coming years. This growth is fueled by the expansion of the e-commerce sector, particularly in emerging markets like China and India. The increasing popularity of online browsing and shopping for cosmetics products, coupled with the widespread use of smartphones globally, is driving the shift towards online channels. Additionally, the burgeoning collaboration between major ecommerce players and cosmetic manufacturers in emerging economies presents ample opportunities for market expansion in the online segment.

1.5 Global End-user Insights

In terms of end-users, the global cosmetics industry is divided into men and women segments. In 2022, the women segment held the majority market share, accounting for over 62.05%. This dominance is attributed to several factors, including the strong inclination of women towards skincare and makeup products for hair and skin. Additionally, women tend to allocate more spending on cosmetics and beauty items compared to men, contributing to the segment's larger market share. The widespread use of various cosmetics products, particularly those containing natural ingredients, further bolsters the segment's dominance.

1.6 Regional Insights

Regarding regional insights, Asia Pacific emerged as the leading revenue contributor in the global cosmetics market in 2022, capturing nearly 44% of the total revenue. This growth is fueled by increasing consumer expenditure on cosmetics and personal care products, coupled with the popularity of premium cosmetic brands endorsed by celebrities. Meanwhile, North America is projected to witness significant growth with a forecasted CAGR of 4.5% from 2023 to 2030. This growth trajectory is driven by rising awareness of skincare routines, innovative product branding, and effective advertising strategies within the North American cosmetics industry.

1.7 Indian Cosmetic Products Industry Overveiw

The Indian cosmetics market is marked by significant fragmentation, with both domestic and international players vying for market share. Key players include L'Oréal, The Estée Lauder Companies, Sugar Cosmetics (Vellvette Lifestyle Private Limited), and The Body Shop International Limited (part of Natura & Co.). These companies actively collaborate with international organizers to showcase their products at major beauty events like Cosmoprof, Canton Fair, and Fashion Fest. To bolster brand positioning and drive sales, market players employ diverse strategies such as celebrity endorsements, promotional discounts, and instant offers.

A recent survey reveals that cosmetics usage is prevalent among women in India, with 79.5% of them incorporating cosmetics into their routines. Analysis by age group indicates varying usage patterns: 28.3% of women under 19, and 21.4% of those aged 20-29 use cosmetics. Interestingly, usage remains consistent among women aged 30-49, with notable usage among those aged 50 and older, including a 5.7% usage rate among women aged 60 and above. Moreover, marital status does not appear to significantly influence skincare and cosmetic usage habits, as nearly equal proportions of married and unmarried women engage in self-care routines.

In summary, the Indian cosmetics industry is characterized by intense competition among numerous players, with women across different age groups actively incorporating cosmetics into their daily routines. Market leaders employ various strategies to maintain competitive advantage and drive sales in this dynamic and evolving landscape.

1.8 India Cosmetic Products Market Analysis

The India Cosmetics Products Market is poised for robust growth, with a projected Compound Annual Growth Rate (CAGR) of 10.91% in the near future. Several key factors drive this growth:

1. Rising Purchasing Power: Consumer expenditure in India has experienced a significant surge, increasing from USD 1.9 trillion in 2018 to USD 2.4 trillion in 2022, according to data from the World Bank. This uptrend has led to increased market demand, especially in the color cosmetics segment, as more individuals incorporate cosmetics into their daily grooming routines. Millennials and younger demographics, influenced by social media platforms, play a crucial role in shaping lifestyle preferences and driving this surge in demand.

2. Social Media Influence: Consumers actively seek out new products and brands through various social media channels such as Instagram and Facebook. Before making purchases, they carefully evaluate product reviews, peer recommendations, celebrity endorsements, expert blog posts, and engage in social media interactions. This trend underscores the importance of social media as a key driver of consumer behavior in the cosmetics market.

3. Expansion of Online Cosmetics Market: The penetration of the internet has witnessed remarkable growth in India, leading to the expansion of the online cosmetics market. Consumers increasingly prefer the convenience and accessibility of online shopping platforms to purchase cosmetics products. This trend is expected to continue as internet penetration rates rise further.

4. Growing Demand for Luxury Cosmetics: Millennials and Gen Z consumers exhibit a growing appetite for luxury cosmetics, driven by their desire to maintain a well-groomed appearance and stay updated with

fashion trends. This segment represents a lucrative market opportunity for cosmetic brands catering to premium and luxury segments.

In summary, the India Cosmetics Products Market is characterized by strong growth potential, fueled by rising purchasing power, the influence of social media, the expansion of online channels, and growing demand for luxury cosmetics among younger demographics. These factors collectively contribute to the vibrant and evolving landscape of the cosmetics industry in India.

1.9 India Cosmetics Products Market Trends

The India Cosmetics Products Market is witnessing notable trends, particularly a growing inclination towards vegan and cruelty-free products. Both the global and Indian markets have experienced a surge in demand for eco-friendly and sustainable beauty options. Cosmetic manufacturers are increasingly incorporating natural and eco-friendly ingredients into their formulations, reflecting a shift towards 'green cosmetics' driven by consumer demand for environmentally conscious products.

Manufacturers and third-party e-retailers are actively introducing or incorporating clean beauty options into their product offerings to cater to this growing demand. For example, in June 2023, the popular ecommerce platform Purplle introduced the renowned clean beauty brand Dr. PAWPAW from the United Kingdom to the Indian market, offering a range of multi-tasking lip and skincare products.

Furthermore, the Ministry of Health and Family Welfare of India has implemented a ban on cosmetic testing on animals, underscoring the country's commitment to cruelty-free practices. This addition of a new rule, "148-C. prohibition of testing of cosmetics on animals," within the existing Drugs and Cosmetics Rules reinforces the shift towards ethical and sustainable beauty practices.

Additionally, Gen Z consumers are reshaping the landscape of the color cosmetics market in India. Fueled by their penchant for experimenting with a diverse array of products and their commitment to planet-friendly practices, this demographic is driving the demand for eco-friendly, natural, organic, and clean-color cosmetic products. As a result, the market for such products is expected to experience significant growth in the coming years, reflecting the changing preferences and values of younger consumers in India.

1.10 Booming Online Retail Segment

The online retail segment is experiencing rapid growth in the Indian cosmetics market, playing a crucial role in sustaining the industry. Online platforms serve as essential channels for selling a wide range of cosmetic products, enabling brands to showcase their offerings, launch new products, and influence consumer preferences. Brands are actively engaging in collaborations with Indian celebrities or influencers to target younger demographics through endorsements.

For example, in June 2023, Just Herbs partnered with Bollywood star Athiya Shetty to promote their natural makeup line, including lipsticks, foundations, and lip gloss made with ghee. These products are available on various e-commerce platforms such as Amazon, Nykaa, Flipkart, and Myntra. Third-party e-retailers are also experiencing increased sales as online shopping gains popularity.

Online shopping offers consumers the convenience of purchasing products without the hassle of navigating crowded stores. It provides flexibility for customers to explore and purchase products at their convenience, from the comfort of their homes. Moreover, online platforms present opportunities for color cosmetic brands to swiftly transition to e-commerce, enhancing product visibility across both rural and urban areas of the country.

The Indian cosmetics market is characterized by significant fragmentation, with numerous domestic and international players competing for market share. Major companies, including L'Oréal, The Estée Lauder Companies, Sugar Cosmetics, and The Body Shop International Limited, are actively engaging in collaborations with international organizers to showcase their products at global beauty community events.

Strategies such as celebrity endorsements, promotional discounts, and instant offers are employed by market players to effectively position their brands and boost overall sales. Notable leaders in the Indian Cosmetics

Products Market include L'Oréal SA, Natura & Co., The Estée Lauder Companies Inc., Unilever PLC, and Sugar Cosmetics (Vellvette Lifestyle Private Limited).

Recent research indicates that 79.5% of women in India use cosmetics. Analysis by age group reveals varying usage patterns, with significant usage observed across different age brackets. Notably, marital status does not significantly influence women's skincare and cosmetic usage habits, as both married and unmarried women engage in self-care routines with equal proportions. This suggests that marriage does not deter women from maintaining their beauty and self-care practices.

1.12 Estee Lauder Companies Inc.

The Estée Lauder Companies Inc. is a leading American multinational enterprise in the cosmetics industry, manufacturing and marketing a diverse range of beauty products including makeup, skincare, perfume, and hair care items. Headquartered in Midtown Manhattan, New York City, it holds the distinction of being the world's second-largest cosmetics company after L'Oréal.

The company's extensive portfolio includes the Estée Lauder brand, which originated from the vision of American businesswoman Estée Lauder. She co-founded Estée Lauder, Inc. in 1946 and left an indelible mark on the fragrance and cosmetics industry. Estée Lauder's early exposure to marketing principles came from her upbringing, learning assertive selling, commitment to quality, and the significance of outward appearance from her father's hardware store.

Estée Lauder's passion for fashion and beauty led her to develop lotions and skin creams under the guidance of her uncle, a European skincare specialist. Together with her husband Joseph Lauter, later known as Lauder, they established Estée Lauder, Inc. in 1946, offering a range of beauty products including skincare treatments, rouge, and makeup bases.

Facing challenges in securing advertising representation due to budget constraints, the Lauders focused on distributing samples at fashion events and through mailings, a strategy that proved successful. From humble beginnings, the company expanded significantly, achieving $100,000,000 in sales by 1973.

Estée Lauder, Inc. expanded internationally in the 1960s, focusing on skincare and protection, and exclusively distributing products through department and specialty stores. Renowned products like the Youth-Dew fragrance and bath oils introduced in 1953 have received significant acclaim.

Skin care products play a significant role in cosmetics, with cleansing being a foundational step in facial care. Cold cream, an age-old beauty product, has evolved into contemporary versions incorporating mineral oil and emulsifiers for oil dispersion in water. Emollients and night creams leave a protective film on the face overnight to minimize moisture loss.

Foundations, face powder, and rouge are essential components of makeup. Vanishing cream, a classic foundation, offers a smooth base for face powder application, creating a flawless appearance. Face powder includes ingredients like talc, chalk, and pigments for coloration, while rouge highlights the cheekbones for a rosy glow.

Eye makeup, including mascara, eye shadow, eyebrow pencils, and eyeliner, accentuates the eyes and requires rigorous safety standards due to its proximity to sensitive areas. Lipstick, another widely used cosmetic item, has a fatty base and pigments for coloration, adhering to safety standards due to its application on sensitive surfaces.

Hair care products such as soapless shampoos, resin-based sprays, and hair colorants cater to various hair care needs, enhancing gloss, body, and color while maintaining safety standards.

In summary, The Estée Lauder Companies Inc. has played a significant role in shaping the cosmetics industry, offering a wide range of beauty products that cater to diverse consumer needs while upholding stringent safety standards.

1 11 Target Market

The Estée Lauder Companies have built a reputation for offering a diverse range of high-quality products that resonate with evolving trends. Their success, which has led to a net worth exceeding a billion dollars, is largely attributed to their effective marketing strategies.

Consumer analysis reveals that the primary demographic of Estée Lauder's customer base consists of women aged 25 to 55 who value reliability and premium quality in their cosmetic products. This target market seeks beauty solutions that align with their lifestyle and preferences, making Estée Lauder's offerings particularly appealing to them.

1.13 Growth

Estée Lauder, the cosmetics giant, has witnessed a remarkable 50% growth in India over the past year, largely credited to the successful introduction of The Ordinary brand. This surge in India has significantly contributed to the organic sales growth momentum within the company's emerging markets.

In the fiscal year 2023, emerging markets, including India, Brazil, Turkey, and Thailand, displayed substantial organic sales growth of 20%. India, in particular, experienced nearly a 50% growth for the year, driven by the exceptional performance of Estée Lauder's established brands in the market. Fabrizio Freda, the President, CEO, and Director of the Estée Lauder Companies, attributed the brand's substantial success to the highly prosperous launch of The Ordinary.

The Ordinary made its debut in India in June 2022 through a collaboration with the Indian e-commerce platform Nykaa, marking a significant milestone. This skincare brand, founded by Brandon Truaxe in 2016 under the Deciem beauty company, became part of Estée Lauder's portfolio after the majority stake acquisition of Deciem in May 2021. Consequently, The Ordinary and NIOD were integrated into Estée Lauder's diverse range of brands.

The acquisition significantly strengthened Estée Lauder's ownership of Deciem, increasing from approximately 29% to about 76%. Throughout the fiscal year 2023, The Ordinary demonstrated robust growth across various markets, fueled by innovative launches in both skincare and hair care segments.

Freda emphasized The Ordinary's remarkable progress during the latest earnings conference, noting that the brand had risen into their tier of scaling brands, surpassing $500 million in sales due to double-digit growth. The success of The Ordinary underscores the strong consumer appeal and efficacy of its ingredient-focused products.

1.14 Estee Lauder Breands

Estée Lauder owns and manages a diverse portfolio of brands across various categories within the cosmetics and beauty industry. Some of the prominent brands under the Estée Lauder Companies umbrella include:

1. Estée Lauder: The namesake brand, known for its high-quality skincare, makeup, and fragrance products, catering to a wide range of consumers.

2. Clinique: A dermatologist-developed skincare and cosmetics brand, offering products that are allergy-tested and fragrance-free.

3. MAC Cosmetics: A globally renowned makeup brand celebrated for its inclusive range of shades and professional-quality products.

4. La Mer: A luxury skincare brand renowned for its high-end formulations, particularly its iconic Crème de la Mer moisturizing cream.

5. Bobbi Brown: Founded by makeup artist Bobbi Brown, this brand is known for its natural and wearable makeup products.

6. Jo Malone London: A fragrance brand offering luxurious and elegant scents, known for its unique fragrance combinations and stylish packaging.

7. Tom Ford Beauty: A collaboration with fashion designer Tom Ford, offering a range of sophisticated and luxurious makeup and fragrance products.

8. Aveda: A brand focused on natural and eco-friendly haircare, skincare, and makeup products, with an emphasis on sustainability and environmental responsibility.

9. Smashbox: A makeup brand known for its innovative products and professional-quality cosmetics, often used in photoshoots and on film sets.

10. Origins: A brand specializing in skincare products made from natural and organic ingredients, with a focus on sustainability and environmental stewardship.

These are just a few examples of the diverse range of brands that fall under the Estée Lauder Companies umbrella, each offering unique products tailored to different consumer preferences and needs.

REVIEW OF LITERATURE

Shi, L. (2023) highlights that despite the acknowledged importance, there remains a notable dearth of research on international brands in China, necessitating further investigation. This paper addresses this gap by examining the consumer behavior of female college students, using Estee Lauder as a case study. Findings suggest that while Estee Lauder holds market share, strategic refinement is imperative for sustained success in China's competitive market, urging premium brands to prioritize various facets of their operations

Gu, J. (2023). analyses Estee Lauder has brilliant performance in China's cosmetics market and a large market share of middle and high-end products paper finds that Estee Lauder is in a monopolistic competitive market, and it takes efforts to make good use of advertising in order to reduce the impact of asymmetric information. In addition, I provide evidence and analysis for the irrational behavior of consumers.

Huang, W et al. (2023) indicates that new marketing strategies have emerged within the beauty industry in response to the pandemic. However, there remains a notable absence of a comprehensive analysis of the changes in marketing channels. Therefore, this article aims to analyze the case of Estée Lauder brand's adaptation of marketing channels during the pandemic. By examining and summarizing its marketing strategies, this study seeks to shed light on how the beauty industry can develop an effective marketing channel framework in the post-pandemic era. This research endeavor seeks to bridge the gap in systematically elucidating the shifts in marketing channels and trends in the post-pandemic landscape, ultimately providing insights and recommendations for the enhanced future development of beauty companies.

Jaya, S., et al.(2023). Focuses on the stimulus-organism-response (SOR) model, the current study investigated social commerce functions as an innovative retailing technological support by selecting the three most appropriate features for the Chinese online shopping environment with respective value co-creation intentions

Yang, Z. (2022). found that the company's ethical and unethical behavior does have some bearing on its stock price in the soap and cosmetics market. The study also makes the case that ethical behavior has a minor positive impact on its stock price while the variation cannot be noticed immediately; unethical behavior may negatively impact the company's stock price directly and quickly. To put it another way, Estée Lauder company's unethical behavior that negatively affects stock prices may have served as a signal to other businesses to deal with management and the market.

June T. (2022). primarily focuses on analyzing the marketing practices of Estée Lauder and their effects on brand trust and loyalty. To gather primary data, 245 VIP members of Estée Lauder were surveyed .The study findings indicate that all marketing practices employed by Estée Lauder have a significant positive influence on brand trust among customers. Specifically, product quality emerges as a key factor affecting brand trust. Moreover, the research reveals that brand trust plays a pivotal role in fostering brand loyalty among customers., Estée Lauder should prioritize maintaining and enhancing product quality in its marketing plans. This can be achieved through stringent quality control measures across all production processes.

Geng, C., & Wang, H. (2022). Focuses on Cosmetics are an indispensable part of people's lives and everyone can be a consumer. Estée Lauder is expanding their scale. In the past period, Estée Lauder adopted correct strategy to respond the COVID-19 Pandemic and global market has been growing with a good trend. In this article, Estée Lauder is used as an example to analyse the market competition and marketing model, and to make relevant recommendations for possible problems that may arise. We found that Estée Lauder's marketing strategy is effective, and Estée Lauder responded to the impact and reduced the threat as much as possible when being affected by COVID-19 together with its competitor Shiseido..

Wang, Y. (2022, July). Analyses that Estee Lauder faces operational risk, COVID-19 risk, and the risk of customer preferences changing most. Moreover, there are various opportunities for Estee Lauder and other brands to transform and develop the cosmetics business through identifying potential risks and making scenario planning for long-term strategic decisions.

Fu, Y.,et al. (2022). analsyse the forerunner of the Estée Lauder Companies, founded by Estée Lauder and Joseph Lauder, and has grown to become the world's largest skincare, cosmetics and fragrance company, and is still expanding its business. In these days of information explosion, the analysis of financial statements and industry markets is particularly important for the development of a business. In this article, we provide a industry, business and financial analysis of Estée Lauder. And make predictions about its future growth.

Ponomareva, E., &Nozdrenko, E. (2021). the article proves that digitalization is the most foundational concept for the successful development of business in Chinese cosmetics companies, as it provides the only opportunity for Western companies to meet the rapidly changing conditions of the digital economy, as well as the modern needs and preferences of Chinese millennials. Digital strategies in the cosmetic market in China are a key driver of marketing, as they provide the flexibility needed to respond to ongoing changes and market needs.

Liang, L., & Pan, Y. H. (2021). focuses to establish a system interaction design process integrating online and offline to help enterprises complete the sustainable development of marketing services. To achieve this goal, this study uses questionnaires to investigate the key elements of user experience, a customer journey map to determine the user pain points and completes the design of the new system process. This process can provide designers with a new perspective through experimental verification, with high timeliness and practicability. It also promotes the collaborative optimization and upgrading of physical retail and online retail and provides theoretical support and a practical basis for other enterprises.

Degiorgi, L. (2019). Found Following new communication approaches, companies in every market need to correctly understand the offline and online consumer's touchpoints and define new types of decision journeys. The beauty Italian market is still by nature very much tied to the traditional channels, and for this reason is essential for Estée Lauder to leverage online and offline integrated strategies, enabling the consumer to purchase offline while being connected to the online world

Parmar, S. M. (2014). indicate that brand loyalty has no significant association with gender and domiciles of users of cosmetic products. Similarly, annual spending on cosmetic products and domiciles of youth are statistically independent variables. Results also disclose that an excellent quality of a cosmetic brand was highly ranked by majority of respondents followed by satisfaction of needs & brand Name.

Koehn, N. (2014). focuses on the inaugural Miss Chinatown USA beauty pageant quickly gained popularity, becoming a highlight of the Chinese New Year festivities, a tradition that endures to this day. Organizers of the pageant sought to address evolving cultural, economic, and political tensions within both the Chinese-American community and broader American society by defining the ideal woman to represent Chinatown. Leaders of the Chinese Consolidated Benevolent Association (CCBA) expressed a desire to introduce something more "Western" to engage American-born generations as they became increasingly assimilated. By showcasing beautiful, charming, and intelligent Chinese-American women, the pageant also honored the families of the contestants, as reflected in the lyrics of the official pageant song, which referred to the contestants as the "loveliest daughter of our Ancient Cathay. "The level of criticism directed towards the pageant correlated with the extent of community discord surrounding issues of ethnic representation, gender

roles, and international allegiances. However, the cultural event served to promote awareness of marginalized groups without undermining fundamental American values of individualism and meritocracy

Lazar, M. M. (2011 analyses the beauty industry has been targeted for upholding narrow and restrictive definitions of beauty, for reinforcing the burden of 'lookism' upon women (namely, women are constantly judged by how they look), and for promoting unhealthy body image obsessions and potentially harmful beauty procedures (Bordo, 1995; Coward, 1984; Kilbourne, 1999). However, other feminists (identified with the 'third wave' and whose views quite easily fit within that of postfeminist) , have reclaimed beauty practices as enjoyable, self-chosen and skilled feminine pursuits

Selbes, A., & Mohamed, S. (2010). Foundthe cosmetics brands consider CSR as a way to differentiate themselves from their competitors in order to gain a competitive advantage and to raise brand awareness. However, the activities need to be in alignment with the identity and the image of the brand. In this way, CSR activities contribute to the brand image while increasing the credibility of these activities in the consumers minds. Moreover, it is necessary for cosmetic brands to communicate their CSR activities to the consumers, in order to inform them continuously and make them aware of the CSR commitment of the brands. In addition, cosmetics brands can cooperate together through certain CSR initiatives in order to increase the credibility of the importance of CSR in the cosmetic industry. The industry initiatives raise CSR awareness and support the overall image of the cosmetics industry as well as the image of the cosmetics brands.

Sun, Q., et al. analyses the risks faced by Estee Lauder Group based on the real case, and makes an analysis of the future development prospects. This paper finds that Estee Lauder can remain invincible in the competition mainly due to its accurate market segmentation and effective financing strategies such as mergers and acquisitions of other companies. Through the analysis of Estee Lauder's competitive advantage, this paper provides some ideas for other small enterprises in decision-making and marketing

Guthrie, M., et al. (2008). examine women's perceptions of brand personality in relation to women's facial image and cosmetic usage. This study seeks to develop a better understanding of how various factors influence perceptions of cosmetic brands

RESEARCH METHODOLOGY

The research methodology employed for the study "Analyzing Consumer Psychology in the Consumption of the Cosmetic Brand Estée Lauder" is outlined below. This project utilizes a structured inquiry approach, adhering to accepted scientific methodology to address problems and generate new knowledge applicable to the study.

3.1 Sampling Plan:
- The sampling plan involves selecting a representative sample of consumers who have experience with Estée Lauder cosmetic products.
- Various demographic factors such as age, gender, income level, and geographic location may be considered to ensure diversity within the sample.
- Sampling techniques such as random sampling or stratified sampling may be employed to ensure the sample's representativeness.

3.2 Research Instruments:
- The primary research instrument for data collection is a questionnaire designed to gather insights into consumer psychology regarding Estée Lauder cosmetics.
- The questionnaire may include both closed-ended and open-ended questions to capture quantitative and qualitative data.
- Prior to the main data collection phase, the questionnaire undergoes pre-testing to assess its clarity, relevance, and effectiveness in eliciting the desired information from respondents.

3.3 Statistical Tools and Techniques:

- Collected data is analyzed using statistical tools and techniques to derive meaningful insights and conclusions.

- Descriptive statistics such as mean, median, mode, and standard deviation may be used to summarize and describe the characteristics of the data.

- Inferential statistics such as correlation analysis, regression analysis, and hypothesis testing may be employed to examine relationships between variables and test hypotheses.

Overall, this research methodology aims to systematically investigate consumer psychology related to the consumption of Estée Lauder cosmetic products, providing valuable insights for the brand's marketing strategies and product development efforts.

3.4 Objectives:

- To explore consumer psychology regarding the consumption of Estee Lauder luxury cosmetics.
- To analyze customer experiences with luxury brands.

3.5 Research Design:

The research design employed is descriptive research, aimed at describing the characteristics of the population or phenomenon under study. The primary data collection method utilized is a selfadministered questionnaire focusing on understanding consumer behavior related to luxury cosmetics consumption.

3.6 Sampling Plan:

• TARGET POPULATION: The study targets individuals aged 10 years and above residing in various states of India who consume luxury cosmetics. • SAMPLING TECHNIQUE: Non-probability convenience sampling is utilized, allowing researchers to conveniently reach the target group. This method aligns with the descriptive research design. • SAMPLE SIZE: The sample size is determined based on the population characteristics and research objectives to ensure representativeness. • SAMPLING UNIT: Each individual participant forms a sampling unit, contributing to the overall data set's representativeness.

3.7 Research Instrument:

The primary research instrument is an online questionnaire structured to collect data on consumer psychology and experiences with luxury cosmetics brands, particularly Estee Lauder. The questionnaire facilitates respondents' quick access through internet connectivity and enables them to provide responses at their convenience.

3.8 Data Collection Method:

Primary data is collected directly from the target population through the online questionnaire and personal interviews. The unbiased structured questionnaire ensures consistent data collection, supplemented by secondary data gathered from newspapers, magazines, books, and various websites.

3.9 Data Analysis Tools And Techniques:

Data analysis involves inspecting, cleansing, and transforming collected data to derive meaningful insights. Various tools such as tables, pie charts, and bar graphs are utilized for data interpretation, facilitating a comprehensive understanding of consumer psychology and behaviors related to luxury cosmetics consumption.

3.10 Research Instrument:

A research instrument serves as a tool to obtain data from subjects pertaining to the research topic and facilitates the measurement and analysis of collected data.

3.11 Online Questionnaire:

An online questionnaire is a structured series of questions designed to gather survey data from a target audience or group of individuals via the internet. Respondents access the questionnaire online and provide their responses electronically. The questionnaire allows respondents to answer questions at their convenience without the presence of an interviewer. Responses are typically recorded in writing, and participants can complete the questionnaire in any order.

3.12 Data Collection Method:

Data collection involves gathering and measuring information on targeted variables within a defined system, enabling researchers to address relevant questions. Primary data, collected directly from primary sources, forms the basis of the study. Primary data collection methods may include surveys, observation, experimentation, or interviews. In this study, an unbiased structured questionnaire and personal interviews are utilized to gather primary data. Additionally, secondary data obtained from newspapers, magazines, books, and various websites supplements the primary data collection process.

3.13 Data Analysis Tools And Techniques:

Data analysis encompasses processes such as inspecting, cleansing, transforming, and modeling data to discover useful information, draw conclusions, and support decision-making. Various tools and techniques are employed for data interpretation, including tables, pie charts, and bar graphs. These tools aid in visually representing and analyzing the collected data, facilitating a comprehensive understanding of the research findings.

DATA ANALYSIS AND INTERPRETATION

4.1 Demographic :

Age:

Options	Frequency	Percentage(in %)
1-20 years	38	37.3
20-30	56	54.9
30-45	8	7.8
Above 45	0	0
Total	102	102

Looking at the age breakdown of the respondents, the 21-30 year old group was the largest, representing over half (54.9%) of the participants. The 1-20 year olds comprised a significant portion at 37.3%, while the 30-45 and 45+ age groups had a smaller representation of 7.8% and 0% respectively.

Gender:

Option	Frequency	Percentage[in %]
Female	79	77.5
Male	23	22.5
Other	0	0

In the distribution above related to gender , females have about 77.5% where as males have 22.5%

Income Level:

Options	Frequency	Percentage (in %)
0-50000	13	12.7
50000-100000	56	54.9
100000-150000	31	30.4
150000-200000	2	2
Total	102	102

From the analysis its clear that the majority of people holds an income of 50000-100000 with frequency of 56 and hold 54.9%. and the least is 150000-200000 as holds only by 2% of people.

Marital Status:

Option	Frequency	Percentage (in %)
Married	7	6.9
Unmarried	95	93.1
Total	102	102

Out of analysis, it represent that the ratio of unmarried is more than that of married as the unmarried holds 93.1% whereas married is 6.9%.

Qualification:

Option	Frequency	Percentage (in %)
10th	0	0
12th	0	0
Graduation	74	72.4
Post Graduation	27	26.5
Other	1	1
Total	102	102

In the analysis it shows that most of the people are graduates as with 72.4%. and 26.5% are post graduate and rest 1% are other.

Occupation:

Option	Frequency	Percentage (in %)
Salaried	29	28.4
Business	18	17.6
Student	47	46.1
Self-employed	3	2.9
Other	5	4.9
Total	102	102

The salaried people in the analysis are 28.4% with 29 frequency .business holds 17.6% and people who are student are 46,1% and self employed are 2.9% and other are 4.9%

4.2 Reliability Test:

	Reliability Statistics	
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.882	.879	16

The table shows good internal consistency reliability based on the two Cronbach's Alpha values, which are 0.882 and 0.879. As a rule of thumb, in social science research, a Cronbach's Alpha value above 0.7 is considered acceptable, and a value above 0.8 is considered good.

The Cronbach's Alpha values indicate that the multiple items you used to measure a concept are highly correlated with each other. This suggests that the items are all measuring the same underlying construct and that the overall measure is reliable.

The fact that the Cronbach's Alpha based on standardized items (0.879) is very similar to the raw Cronbach's Alpha (0.882) suggests that the items have similar variances. This strengthens the interpretation of good internal consistency.

4.3 Descriptive Analysis:

This is a descriptive analysis of a survey that explores customer perception of Estee Lauder products and brand. The analysis summarizes the key findings using measures like mean, median, and standard deviation to understand customer sentiment on various aspects of the brand.

No	Statement / Question	Mean	Median	Standard Deviation
1	Do you feel that the Estee Lauder products are high in quality?	3.75	3.00	0.95
2	Estee Lauder variety caters to a wide range of needs	3.34	3.00	1.28
3	Brand reputation is a factor influenced your decision to purchase them?	3.02	3.00	1.69
4	Is the product effective in delivering results	3.23	3.00	1.30
5	Is the price points are reasonable for the quality	4.00	4.00	0.87
6	Estee Lauder products offers the features	2.30	3.00	1.01
7	Is there some influence of celebrity on the sales of the brand	4.67	5.00	0.88
8	Este lauder communicate its brand message beautifully	4.21	4.00	0.74
9	Is the information about Estee lauder available on social platforms	3.51	4.00	1.35
10	Estee Lauder provides premium service products	4.35	5.00	1.00
11	Estee lauder is the most luxurious brand globally	3.69	3.00	1.00
12	Is Estee lauder the most preferred brand for cosmetics	4.23	5.00	1.24
13	Are mini size products of Estee lauder worth for money	4.34	5.00	1.01
14	Estee Lauder products are highly recommended	2.98	3.00	1.00
15	Estee lauder meets consumers expectation	3.41	3.00	1.13
16	Use of makeup products make you feel confident?	3.27	3.00	1.39

The responses indicate a generally positive perception of Estee Lauder products and the brand.

The mean rating for price being reasonable for the quality is 4.00, with a median of 4.00. This suggests that customers generally perceive Estee Lauder products to be priced fairly for the quality they offer.

The mean ratings for product quality (3.75) and effectiveness (3.23) are positive. However, the standard deviation for quality (0.951) is slightly lower than that for effectiveness (1.304), indicating a somewhat wider range of opinions on how effective the products are perceived to be.

The ratings for celebrity influence (4.67), brand message communication (4.21), and information availability (3.51) suggest a positive brand image. The high rating for celebrity influence (4.67) indicates that celebrity endorsement may be a successful marketing strategy for the brand.

The mean ratings for meeting expectations (3.41) and product recommendation (2.98) are somewhat lower than other ratings.

4.4 Exploratory Factor Analysis

This table shows the communalities extracted from a Principal Component Analysis (PCA) on the survey data about Estee Lauder products and brand perception. Communalities indicate the proportion of variance in each question that can be explained by the underlying factors identified in the PCA.

Communalities		
	Initial	Extraction
Use of makeup products make you feel confident?	1.000	.884
Is you feel that the Estee Lauder products are high in quality?	1.000	.872
Estee Lauder variety caters to a wide range of needs	1.000	.953
Brand reputation is a factor influenced your decision to purchase them?	1.000	.907
Is the product effective in delivering results	1.000	.786
Are the price points being reasonable for the quality	1.000	.782
Estee Lauder products offers the features	1.000	.833
Is there some influence of celebrity on the sales of the brand	1.000	.891
Estee lauder communicate its brand message beautifully	1.000	.735
Is the information about Estee lauder available on social platforms	1.000	.895
Estee Lauder provides premium service products	1.000	.671
Estee lauder is the most luxurious brand globally	1.000	.832
Is Estee lauder the most preferred brand for cosmetics	1.000	.883
Are mini size products of Estee lauder worth for money	1.000	.826
Estee Lauder products are highly recommended	1.000	.608
Estee lauder meets consumers expectation	1.000	.383
Extraction Method: Principal Component Analysis		

The Statement/Question indicates the survey questions related to Estee Lauder. The Initial column represents the variance explained by each question itself (generally set to 1). The Extraction column shows the communality, which is the variance explained by the extracted factors in the PCA for each question. Values closer to 1 indicate a higher proportion of the variance explained by the factors.

The Extraction Method used in the analysis is the Principal Component Analysis (PCA) is a statistical technique used to identify underlying factors that explain the variance observed in a set of variables.

Most questions have a relatively high communality (> 0.7) in the extraction column, indicating that a good portion of their variance is explained by the factors extracted in the PCA.

Questions about confidence from makeup use (0.884), product quality (0.872), and brand reputation (0.907) have the highest communalities after extraction, suggesting they share a strong underlying factor.

Questions about premium service (0.671) and meeting expectations (0.383) have the lowest communalities, indicating these aspects might be less related to the other factors identified in the PCA.

4.5 Rotated Component Matrix

This table presents the results of a Rotated Component Matrix (RCM) following a Principal Component Analysis (PCA) on the Estee Lauder customer perception survey data. The RCM helps identify underlying factors (components) that explain the relationships between the survey questions.

Rotated Component Matrixa			
Statement/Questions	**Component**		
	1	**2**	**3**
Use of makeup products make you feel confident?	.482	**.807**	-.036
Do you feel that the Estee Lauder products are high in quality?	**.817**	.434	-.128
Estee Lauder variety caters to a wide range of needs	**.955**	.203	.009
Brand reputation is a factor influenced your decision to purchase them?	**.950**	.011	-.068
Is the product effective in delivering results	**.861**	.190	.098
Are the price points being reasonable for the quality	.450	**.753**	.112
Estee Lauder products offers the features	**.856**	-.315	-.043
Is there some influence of celebrity on the sales of the brand	-.141	.086	**.929**
Estee lauder communicate its brand message beautifully	.512	.305	**.616**
Is the information about Estee lauder available on social platforms	**.930**	-.077	.157
Estee Lauder provides premium service products.	.015	**.818**	.030
Estee lauder is the most luxurious brand globally	**.778**	.471	.071
Is Estee lauder the most preferred brand for cosmetics	-.135	**.930**	.000
Is mini size products of Estee lauder worth for money	-.102	**.840**	.330
Estee Lauder products are highly recommended	-.662	**.396**	-.114
Estee lauder meets consumers expectation	**.540**	.183	-.240
Extraction Method: Principal Component Analysis.			
Rotation Method: Varimax with Kaiser Normalization.			
a. Rotation converged in 5 iterations.			

Component 1, 2, 3 represent the three factors extracted by the PCA. Each question has loadings on all three factors, but the highest loading indicates the factor it is most associated with.

Loadings: Values in the table represent the correlation between a question and a factor. Higher values (positive or negative) indicate a stronger association.

Factor 1 (High Loadings: 2, 3, 4, 5, 7, 10, 12, 16): This factor can be labelled as **"Perceived Quality and Brand Value."** It groups questions about product quality, brand reputation, effectiveness, features, premium service, luxury perception, and meeting expectations. High loadings here suggest these aspects are strongly interrelated and contribute to a customer's overall perception of quality and brand value.

Factor 2 (High Loadings: 1, 6, 11, 13, 14, 15): This factor can be labelled as **"Personal Perception and Satisfaction."** It groups questions about confidence from makeup use, feature satisfaction, perceived value for money (mini-size and overall), product recommendation, and meeting expectations. This factor captures a more personal sentiment about product features, value, and overall satisfaction.

Factor 3 (High Loadings: 8, 9): This factor can be labelled as **"Brand Communication."** It groups questions about brand message communication and information availability on social media. This factor focuses on how effectively Estee Lauder communicates its brand image.

FINDINGS AND CONCLUSION

➢ Customers seem to have a generally positive perception of Estee Lauder's value proposition. The mean rating of 4.00 for price being reasonable suggests that the brand strikes a good balance between product quality and affordability.

➢ This is further supported by the median of 4.00, indicating that a significant portion of customers find the prices fair.

➢ While the mean rating of 3.75 for product quality remains positive, the standard deviation of 0.951 suggests some variation.

➢ This means there's a mix of experiences - some customers may find the products highly effective, while others might hold slightly less enthusiastic views.

➢ In contrast, the standard deviation for effectiveness is higher at 1.304. This wider range indicates a more significant spread of opinions on product effectiveness.

➢ Customers rate celebrity influence (4.67), brand message communication (4.21), and information availability (3.51) favorably.

➢ This suggests that the brand effectively leverages celebrity endorsements, communicates its message clearly, and provides customers with adequate product information.

➢ The high rating for celebrity influence (4.67) is particularly noteworthy. This indicates that Estee Lauder's strategy of utilizing celebrity endorsements resonates well with its target audience.

➢ there are areas where Estee Lauder can potentially improve. The mean ratings for meeting expectations (3.41) and product recommendation (2.98) are lower compared to other aspects.

➢ Similarly, a deeper dive into factors affecting product recommendation rates could reveal areas for improvement. Perhaps customers perceive limited innovation or a lack of products addressing specific needs.

➢ The consumers highly prefer the recommendation of products while purchasing product so company should focus on that ares

➢ Consumers are highly satisfied with the pricing provided by the brand as the 41.2% respondent belive in the satisfaction level.

➢ Consumers are also very attracted to the premium quality offered by the brand.

➢ Although customer satisfaction is generally positive, there's room for improvement

➢ Lower mean ratings for meeting expectations (3.41) and product recommendation (2.98) indicate some customers might not feel their expectations are consistently met or fully convinced to recommend products.

➢ Further research could explore reasons behind unmet expectations. This could be related to product performance, lack of understanding about benefits, or customer service issues.

➢ Analyzing factors affecting product recommendation rates could reveal areas for improvement. Limited innovation or a lack of products addressing specific needs might be potential reasons.

CONCLUSION

Estee Lauder: A Brand with Strengths and Opportunities

This research project explored customer perceptions of Estee Lauder, revealing a brand with a strong foundation and opportunities for further growth.

Key Strengths:

• Value Proposition: Customers perceive Estee Lauder products to offer good value for the price, with a positive balance between quality and affordability.

• Brand Image: Estee Lauder enjoys a positive brand image, effectively leveraging celebrity endorsements, communicating its message clearly, and providing adequate product information.

• Marketing Strategy: The use of celebrity endorsements appears to resonate well with the target audience.

Areas for Improvement:

• Meeting Expectations: Efforts are needed to ensure a more consistent experience for customers, meeting their expectations regarding product performance and benefits.

• Product Recommendation Rates: Understanding why customers hesitate to recommend products can help Estee Lauder identify areas for improvement, potentially in product innovation or addressing specific consumer needs.

Estee Lauder's strong brand image and perceived value proposition position it for continued success. However, by focusing on areas where customer satisfaction can be enhanced, particularly meeting expectations and product recommendation rates, Estee Lauder can further solidify its market leadership and customer loyalty.

Additional Considerations:

• This conclusion can be strengthened by mentioning the specific target audience of the research (e.g., age group, demographics).

• If your research focused on a specific product category or marketing campaign, tailor the conclusion to reflect those findings.

• Consider including a call to action, suggesting future research areas or potential marketing strategies based on your findings.

Questionnaire

1. Name-

2. Age-

   ☐ 1-20 years   ☐ [B 20- 30 years   ☐ [C 30-45years   ☐ above 45

3. Gender-

   ☐ Male   ☐ Female   ☐ Other

4. Income level-

   ☐ Rs 0 to 50000   ☐ 50000-100000   ☐ 100000-150000   ☐ 150000-200000

5. Marital status-

   ☐ Married   ☐ Unmarried

6. Qualification-

   ☐ 10TH   ☐ 12th.Graduation   ☐ Post Graduation   ☐ Other

7. Occupation-

   ☐ Salaried   ☐ Business   ☐ student   ☐ Self-Employed

   ☐ Others

8. Use of cosmetics-

   ☐ Daily   ☐ Occasionally   ☐ Never

9. What Kind Of Products do you prefer?

   ☐ Makeup   ☐ Skin care   ☐ Other

10. Which Brand Do you Prefer?

    ☐ International   ☐ Domestic   ☐ None

11. What Do you look for in the product?

    ☐ Quantity   ☐ Price   ☐ Premium   ☐ Review

12. What Factors Influence in buying decision?

    Reputation   Recommendation   Features

13. Where do you purchase Estee Lauder?

    ☐ Departmental stores   ☐ Website   ☐ Nayka   ☐ Others

Rate the following statements from strongly Disagee to strongly agree scale.

Strongly disagree(SD)=1, Disagree(D)=2, Neutral(N)=3, Agree(A)=4, Strongly agree(SA)=5

Tick the variables affecting your purchase decision of Estee Lauder products

Sr. No.		SD	D	N	A	SA
		1	2	3	4	5
1	Use of makeup products make you feel confident ?					
2	Is you feel that the Estee Lauder products are high in quality?					
3	Estee Lauder variety caters to a wide range of needs					
4	brand reputation is a factor influenced your decision to purchase them?					
5	Is the product effective in delivering results					
6	Is the price points are reasonable for the quality					
7	Estee Lauder products offers the features					
8	Is there some influence of celebrity on the sales of the brand					
9	Estee lauder communicate its brand message beautifully					
10	IS the information about estee lauder available on social platforms					
11	Estee Lauder provides prenium serv ice products					
12	Estee lauder is the most luxurious brand globally					
13	Is Estee lauder the most preferred brand for cosmetics					
14	Is mini size products of estee lauder worth for money					
15	Estee Lauder products are highly recommended					
16	Estee lauder meets consumers expectation					

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Your valuable comments will help us to shape the future issues better.

	Highly Appreciable	Somewhat Appreciable	Not Appreciable	Did Not Read
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Analysing The Impact of Data Analytics Adoption on The Business Strategy Evolution	☐	☐	☐	☐
She Leads, She Empowers: Exploring the Role of Female Mentorship in Career Advancement	☐	☐	☐	☐
Analyzing The Consumer Psychology on Consumption of Products of Estee Lauder	☐	☐	☐	☐

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READERS' VIEW

About the University

IFTM University has been a pioneer in bringing technical and professional education to the city of Moradabad.

Expanded into a huge ~51.74 acres campus and located at a distance of 12 km from Moradabad city on Lucknow-Delhi National Highway, IFTM University, is a State Private University established in 2010, by an Act (No. 24 of 2010) of State Legislature of Uttar Pradesh. The University is approved under section 2(f) of UGC Act 1956 and also the University is empowered to award degrees as specified by UGC under section 22 of UGC Act 1956.

From a humble beginning in 1996 with three courses, as Institute of Foreign Trade and Management, the University has now succeeded in establishing itself as a niche player by becoming a "Centre of Excellence" in various disciplines of professional education providing best in-class education in more than 80 number of Diploma, Undergraduate, Postgraduate and Doctoral Programmes in Engineering, Business Management, Pharmacy, Biotechnology, Microbiology, Arts, Sciences, Commerce, Hotel Management & Catering Technology, Law, Education, Journalism & Mass Communication, Agricultural Science & Engineering and Computer Science & Applications, etc.

IFTM University embarks upon a journey to be the "Trusted Partner of Choice" for Parents, Students, Teachers and Industry Champions. In this attempt, University now boasts to house 11000 + students and more than 400 faculty members till date. Thus, with a modest start, IFTM University has traversed a long path to become accredited with 'A' grade (CGPA 3.14) by National Assessment and Accreditation Council (NAAC) and is also the member of Association of Indian Universities (AIU). IFTM University has also been ranked in Band 101-125 in Pharmacy category by National Institutional Ranking Framework (NIRF) Ranking 2024. It strives to scale new heights and aspires to forge new partnerships with National and International bodies in order to make an indelible mark on the face of higher Education.

About The School of Business Management

The School of Business Management, formerly known as the Department of Management Studies was established in the year 1996 under the aegis of Institute of Foreign Trade & Management (IFTM) and had been offering the BBA, MBA & MIB programmes of Rohilkhand University, Bareilly, until the year 2000 when MBA programme came under the affiliation of the Uttar Pradesh Technical University, Lucknow. However, in 2010, it has been reorganized as School of Business Management (SBM) after IFTM was granted the University status by U.P. Government vide IFTM University Act No. 24 of 2010.

SBM has become one of the most reputed and sought-after centers of education and offers diverse courses ranging from Diploma in Hotel Management, UG courses such as BBA, B.Com, B.Com (Hons.), BHMCT, PG courses like MBA, M.Com, MHM and PhD in Management & commerce. Through its research and development outputs, the School has been a constant contributor in the field of management, commerce and hotel, travel and tourism management. It encourages active collaboration with industry as well as other academic institutions. The aim of the school is to continue to excel in its research and training programs, promoting both technical and managerial skills as well as higher ethics and values.