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Organized by:

Institute of Management Studies, Ghaziabad

92. **Customer's Perception Using Embedded Finance in India** 61
Dr. Shipra Mishra

93. **Influence of Involvement and Environment on Student Academic Performance"** 61
Himanshu Verma, Debarghya Mukherjee, Bharat Varshney, Anurag Singh & Budhitya Dev

94. **Best Practices for Regulating Fintech: An Examination of Global Approaches and their Effectiveness** 62
Daiwik & Shumank Deep

95. **Managing Customer Experience in an Evolving Digital Marketing World** 63
Dipali Agarwal, Ishika Agarwal, Yasir Ansari & Anjeena Naved

96. **Emerging Trends and Applications of Machine Learning in Financial Management: A Quantitative Investigation** 64
Sanjay Negi

97. **Leveraging Artificial Intelligence, Digital Transformation, and Cyber Security to Revolutionize Banking Industry"** 64
Unnati Chaurasia, Sidharth Chaudhary, Tapish Kaushik, Shivank Mishra & Shumank Deepl

98. **Seasonality Effect on Indian Stock Market** 65
Nisarg Joshi & Hrudanand Mishra

99. **Exploring The Role of AI in Creating Hybrid Work-Culture, Empirical Study in the Context of India** 65
Manan Jain, Nupur Kumari, Rashi Saxena, Nitish Rawat & Nainasi Singh

100. **Circular Economy: The Way Ahead** 66
Sneh Khandelwal & Shrimant Sharma

101. **A Study to Explore the Effectiveness and Acceptability of AI in Health Care Sector with Special Reference to Covid-19 Pandemic Period in UP West** 66
Priyanshi Srivastava & Naveen Kumar

102. **Industry 4.0 and Digital Factory** 67
Sumit Kumar, Vaishnavi Sinha, Shikhar Shukla, Tanya Khanduri & Shorya Gupta

103. **Employee Training and Development in Digital Age** 68
Shalu Shishodia, Diksha Yadav, Faizan Zaidi & Utkarsh Aggarwal

104. **Impact of 9/11 Terrorist Attack on The Stock Market: An Application of Event Study** 68
Dhanraj Sharma, Ruchita Verma & Murad Al-Bukari

105. **Role of Biotechnology in Waste Management** 69
Drankita Saxena

106. **Low Literacy Rate in Rural Areas** 69
Alarsh Tiwari, Ankit Anand & Rashish Kumar Dey

107. **Data Encryption Technique based on Enhancement of Blowfish Algorithm in Comparison of DES & DCT Methods"** 70
Vikas Singhal, Devendra Singh & Sanjai Kumar Gupta

Data Encryption Technique based on Enhancement of Blowfish Algorithm in Comparison of DES & DCT Methods"

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Abstract

Cryptographic methods or techniques are mathematical operations used to encrypt plaintext into cipher text and vice versa. The security of the encrypted message depends on the complexity of the algorithm and the secrecy of the key used to encrypt and decrypt the message. Cryptosystems are a combination of cryptographic algorithms, keys, and protocols that work together to provide secure communication. The security of encrypted data relies on the strength of the cryptographic algorithm and the secrecy of the key during transmission over a network. The cryptographic algorithm should be strong enough to prevent unauthorized access, and the key should be kept secret to ensure that only the intended parties can access the encrypted data. Data encryption is a crucial step in securing data. Implementing the Blowfish algorithm and comparing its performance with the DES algorithm can provide insights into the strengths and weaknesses of both algorithms. By giving the data and key as input to the encryption block, the Blowfish algorithm can encrypt the data to protect its confidentiality. The comparison with DCT can also highlight the trade-offs between performance, security, and implementation complexity. This research focuses enhancement of Blowfish algorithm to secure plaintext and file message content through encryption. By reducing the number of rounds and increasing the block length with a fixed length and using a transformation method, the enhanced Blowfish algorithm aims to improve its performance.

Keywords: Cryptography, Steganography, DES, DCT, AES, LSB, Blowfish

Exploring The Role of AI in Creating Hybrid Work-Culture, Empirical Study in the Context of India

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Abstract

The study is about the role of AI in creating hybrid work-culture because adoption of AI has grown by 270% since 2017. Which will enable the HR to develop new strategies for employees and create a balance of work life and personal, so that they can sustain, retain the valuable assets i.e. people for their organisation. Because covid pandemic has changed the whole work scenario. It's no wonder given our increasing