(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/04/2022

(43) Publication Date : 22/04/2022

(54) Title of the invention : AI BASED SAFE HEALTHCARE SYSTEM FOR FERTILITY PRESERVATION FOR YOUNG WOMAN WITH BREAST CANCER USING CLOUD AND MACHINE LEARNING ALGORITHMS

		 (71)Name of Applicant : 1)Prof.(Dr.) N. G. Raghavendra Rao Address of Applicant :Professor Department, of Pharmaceutics KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Muradnagar, Ghaziabad-201206, Uttar Pradesh, India
		 2)Md Aquib Ahsan 3)Dr. Arunkumar P.M 4)Dr. Sudharani B Banappagoudar 5)Dr. S. Saravanan 6)Dr. Mukesh Kumar Singh 7)Dr. Achal Mishra 8)Priya Bansal 9)Dr. Abhishek Kumar 10)Dr. Brijesh Sathian 11)Mr. Surya Prakash Name of Applicant : NA Address of Applicant : NA 7(72)Name of Inventor : 1)Prof.(Dr.) N. G. Raghavendra Rao Address of Applicant : Professor Department, of Pharmaceutics KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Muradnagar, Ghaziabad-201206, Uttar Pradesh, India
(51) International classification	:G06N0020000000, G16H0050200000, G16B0040000000, G16H00507000000, A61B0005000000	2)Md Aquib Ahsan Address of Applicant :Student & Center for Nanoscience and Nanotechnology Jamia Millia
(86) International Application	·NA	Islamia (A Central University), New Delhi. India
No Elling Data	:NA	3)Dr. Arunkumar P.M
(87) International Publication No (61) Patent of Addition to Application Number	: NA	Address of Applicant Associate Professor, Department, of Computer Science and Engineering, Karpagam college of Engineering, Coimbatore. Tamilnadu, India 4)Dr. Sudharani B Banappagoudar
	:NA :NA	Address of Applicant :Professor Obstetrics and Gynaecological Nursing School of Nursing Science, ITM University, Gwalior, Madhya Pradesh, 475001, India.
(62) Divisional to Application		Address of Applicant :Assistant professor & Research Guide.PG and Research Department of
Number Filing Date	:NA :NA	commerce, Dr. Ambedkar Government Arts College, (Autonomous, Affiliated to University of Madras) vyasarpadi, chennai-600039, Tamilnadu, India.
		Address of Applicant : Associate Professor. Pharmacy, School of Pharmaceutical Sciences.
		IFTM, University, Moradabad Uttar Pradesh, India
		7)Dr. Achal Mishra
		Address of Applicant :Professor ,Pharmaceutical Sciences Faculty of Pharmaceutical Sciences Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India.
		8)Priya Bansal
		Address of Applicant :Assistant Professor Department: KIET School Of Pharmacy, KIET
		Group Of Institutions, Delhi-Ncr, Ghaziabad-201206, Uttar Pradesh, India
		9)Dr. Additess of Applicant Assistant Professor Department: KIFT School Of Pharmacy, KIFT
		Group Of Institutions, Delhi-NCR, Ghaziabad-201206, Uttar Pradesh, India.
		10)Dr. Brijesh Sathian
		Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar
		11)Mr. Surva Prakash
		Address of Applicant :Assistant Professor Department of Pharmaceutical Chemistry, KIET School of Pharmacy, KIET Group of Institutions, Ghaziabad, Uttar Pradesh, 201206, India

(57) Abstract :

In the modern world, breast cancer has become a major public health issue, and people must take extra precautions to avoid it. Breast cancer patients who are diagnosed early have a better chance of survival, as early detection increases the likelihood of survival. By correctly classifying benign tumours in the first place, patients can avoid unnecessary treatments such as chemotherapy and radiation therapy. Breast cancer has been the subject of extensive research. Above all else, it's prudent to ascertain whether or not someone has cancer. Machine learning (ML) has established itself as the de facto standard for classifying and forecasting BC patterns. This is because machine learning is capable of detecting critical features in complex datasets that other methods cannot. This is true of developed as well as developing countries! Women are more likely than men to be affected. One of the primary reasons women die at a younger age than men is due to this factor. Breast cancer is a disease that is notoriously difficult to detect. Additionally, it is critical to develop a system capable of detecting breast cancer in its earliest stages, as current systems are incapable of doing so. Breast cancer is extremely dangerous and affects one in every 22 women, or 3.4 billion of the world's 7 billion people. This method is used by medical professionals to determine whether or not to perform a biopsy on a patient. While it is not perfect, it can assist physicians in determining whether or not to perform surgery. Each patient was assigned a unique set of confusion matrices and receiver operating characteristic (ROC) analysis. Alcrase is a dataset that contains approximately 16000 datasets and 30 features that can be used to evaluate the algorithm's performance on this dataset. The primary objective of this paper is for the researchers to compare the various available machine learning and deep learning algorithms.

No. of Pages : 13 No. of Claims : 9