(54) Title of the invention : Deep Learning and Artificial intelligent based detection and prevention of various Cancer (Oral, Blood, Lung, Breast, Mouth, Tumor size) using Machine Learning and Data Mining for health care management

(51) International classification :G06N0020000000, G16H0050200000, C07K0016180000, G06N0003080000, G06K0009620000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to :NA Application Number Filing Date :NA (62) Divisional to Application :NA Number Filing Date :NA	(71)Name of Applicant : 1)Kavitha R Address of Applicant :Assistant Professor Department of Microbiology Periyar University Vivekanandha arts and science college for women Veerachipalayam,sankari west post - 636303, Salem District, Tamilnadu, India. ---------- ----------- 2)Dr Stalin Subbiah 3)Dr. Deepak Chandran 4)Dr.Sridevi Narayanan 5)Jonnala Subba Reddy 6)Dr.R.Rajasekaran 7)Mr. Surya Prakash 8)Dr. S. Saravanan 9)P.Jeevitha 10)Dr. Brijesh Sathian 11)Dr.Vasundhara Saxena 12)Jitendra Kurmi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kavitha R Address of Applicant :Assistant Professor Department of Microbiology Periyar University Vivekanandha arts and science college for women Veerachipalayam,sankari west post - 636303, Salem District, Tamilnadu, India. ---------- ----------- 2)Dr Stalin Subbiah Address of Applicant :Teacher (H), Bahrain Training Institute Postbox 33090, ISA Town, Bahrain . ---------- ----------- 3)Dr. Deepak Chandran Address of Applicant :Assistant Professor, Department of Veterinary Sciences and Animal Husbandry, Amrita School of Agricultural Sciences, Amrita Vishwa Vidyapeetham University, Coimbatore, Tamil Nadu, India - 642109. ---------- ----------- 4)Dr.Sridevi Narayanan Address of Applicant :Assistant professor Computer Science Dept. College of Computer studies University of Technology Bahrain Building 829,Road 1213,Block 712 Salmabad ,Kingdom of Bahrain ---------- ----------- 5)Jonnala Subba Reddy Address of Applicant :Associate Professor & Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (DT), Andhra Pradesh – 521230, India. ---------- ----------- 6)Dr.R.Rajasekaran Address of Applicant :Assistant Professor, Department of Microbiology Marudupandiyar College Address Vallum, Trichy Main Road, Thanjavur Pin 613403, Tamil Nadu, India. ---------- ----------- 7)Mr. Surya Prakash Address of Applicant :Assistant Professor Department of Pharmaceutical Chemistry, KIET School of Pharmacy, KIET Group of Institutions, Ghaziabad, Uttar Pradesh, India, Pin-201206 ---------- ----------- 8)Dr. S. Saravanan Address of Applicant :Assistant professor & Research Guide, PG and Research Department of commerce,Dr. Ambedkar Government Arts College,(Autonomous, Affiliated to University of Madras) vyasarpadi, chennai-600039, ---------- ----------- 9)P.Jeevitha Address of Applicant :Student Department: Pharm.D (Final year), Annamalai University, Chidambaram, Cuddalore District, Tamil Nadu, 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)Dr.Vasundhara Saxena Address of Applicant :Principal Department of Pharmacy Agra public pharmacy college of Diploma, Agra Uttar Pradesh. India. ---------- ----------- 12)Jitendra Kurmi Address of Applicant :Ph.D. Research scholar Department of computer science, Lucknow university, Lucknow, Uttar Pradesh, India. ---------- -----------

(57) Abstract :
Deep Learning and Artificial intelligent based detection and prevention of various Cancer (Oral, Blood, Lung, Breast, Mouth, Tumor size) using Machine Learning and Data Mining for health care management Abstract: Cancer is rapidly spreading and expanding throughout the world. Oral cavity and neck cancer is one of the most deadly types of cancer because it develops and grows in the mouth and neck, where it can spread. Tobacco use is the major cause of oral cancer, particularly cigarette and cigar smoking. Excessive alcohol usage is another risk factor for developing mouth cancer. Thousands of people have died of mouth cancer as a result of the disease not being discovered early enough and treatment not being delivered promptly enough. Medical experts are devoted to developing a system capable of detecting and preventing the spread of this deadly disease. In this work, data mining techniques such as detection, classification, and clustering are utilised to identify individuals with oral cancer. A machine learning-based Deep Neural Based Adaptive Fuzzy System is used to detect and identify oral cancer. This study reveals how this technique can be used to detect and diagnose oral cancer (DNAFS). DNAFS is implemented utilising both a neural network and a fuzzy logic technique. Contrast data mining with DNAFS to discover the most efficient data classification methods. This method entails clustering using fuzzy C-Means, feature selection, and classification. Once you've recognised the individual, you're finished! Data mining techniques can aid in the discovery of critical relationships within massive datasets. Over 96.29 percent of the time, experiment outcomes were correct. A mistake occurs on average in less than 5 milliseconds, which is exceedingly fast. To do additional clinical research, the databases must be extensively evaluated.

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