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Application of data analytics in healthcare to serve the mankind

As we are the era of rapid technological advancement, the data is increasing rapidly and the emerging technologies are used for a better solution. Due to the busy lifestyle, the focus and care on the health issues is neglected and is leading to severe health concerns at a later stage if not properly monitored and detected at an early stage. To overcome this problem and create an awareness among the individuals, a research is proposed to serve the Mankind using Data Analytics.

Data Analytics involves a large volume and variety of data and helps us to examine the medical data and draw timely conclusions so that the patients can be sent regular alerts based on monitoring their health conditions. This work also helps the doctors to diagnose the disease at an early stage and prevents the patients from suffering at a later stage by adopting smart decision and right management techniques.

This research involves the examination of the symptoms, previous health reports, treatment history of the patients and treatment record of similar disease which helps in deriving accurate conclusions and gives a way forward towards adopting the preventive measures. This work also leads to the confidentiality and data privacy challenges as the medical

data being examined is to be restricted among the patients and doctors. The motivation behind this work is to serve the mankind and help them to lead a happy and healthy balanced life.

Speaker Biography

Jharna Majumdar is currently the Dean R & D, Prof. Dept of M Tech Comp Sc. & Engg. and Head, Centre for Robotics Research at the Nitte Meenakshi Institute of Technology, Bangalore, India. Dr. Majumdar served Defense Research & Development Organization, Govt. of India from 1990 to 2007, worked as a Research Scientist on 'Robotics and Automation' at the Forschungs Zentrum Informatik, Karlsruhe, Germany from 1983 to 1989 and as a Research Scientist at the Stanford Research International California, USA in 2002. Dr. Majumdar has a PhD in Electrical Engg., Undergraduate and Post Graduate Engineering from IIT Kharagpur, India. Dr. Majumdar published more than 180 reviewed technical papers, has 4 Patents and received a large number of awards. Some of her worth mentioning awards are : Award from President, Stanford Research International (SRI International), California, USA, Performance Excellence Award from the Prime Minister of India, Dr V M Ghatage award from Aeronautical Society of India, Dr. Suman Sharma Award from National Design and Research Forum (NDRF), Dr. Kalpana Chawla Memorial Lecture Award etc. Her current research areas include Real Time Image and Video Processing, Data and Video Analytics, Robotics and Autonomous Systems, Artificial Intelligence, Machine Learning, ANN and Deep Learning.

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