

(54) Title of the invention : AN ANALYTICAL METHOD FOR HEALTH RISK PREDICTION OF A PATIENT'S HEALTH IN REAL TIME USING MACHINE LEARNING

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(57) Abstract :

Medical field data has drawn attention to interest among researchers. Development of a system to enable disease prediction decision-making utilizing the data collection of the medical industry utilizing data mining techniques. This invention proposes a novel method based on a knowledge system for the prediction of diseases by means of noise removal, clustering and prediction techniques. Fuzzy rules are generated using classification trees and regression trees that are used in the system based on the knowledge system. Testing of the proposed method is done on various medical dataset of public. Remarkable improvement is obtained by the proposed method for prediction of disease in the datasets of Cleveland, pima Indian diabetes etc. Combining fuzzy-based rule with CART noise removal with clustering techniques is successful in forecasting disease from the dataset of the real world. This knowledge-based program supports medical professionals in clinical scientific practice.

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