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DIABETES DISEASE PREDICTION USING ENSEMBLE MACHINE LEARNING

ABSTRACT

This project is about predicting the diabetes of the patient using the data. Using the past records of the patents data using the ensemble machine learning techniques like random forest and decision tree models we will be predicting the diabetes of the patient bases on the features taken from the data. Ensemble techniques will take more than one algorithm in an algorithm to predict the output. Based on the independent features of the patient health condition the machine learning model will be predicting whether the patient has diabetes or not. Using frontend techniques, we will be sending the predicted data we will be creating the webpage, and we will be showing the statistics of the patient's diabetes predicted data.

HARDWARE REQUIREMENTS

RAM- 8GB
Hard Disk- 256GB SSD
Processor – intel core i5

SOFTWARE REQUIREMENTS

Operating system – windows 10
Frontend tools – HTML, CSS, JavaScript
Backend tools – Java
Database – MYSQL
Data Engineering – pandas, matplotlib, seaborn.
Machine Learning – Random Forest, Decision Tree