

INDIVIDUAL CONTRIBUTION REPORT:

Diabetes Prediction System

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Abstract: In Today's World around 9.4% of the world's adults have diabetes, and the prevalence of the disease is raising rapidly. Many complications occur if diabetes remains untreated and unidentified. Therefore we have come up with a model which can prognosticate the likelihood of diabetes in patients with maximum accuracy, so that a person can know his chances of diabetes before hand.

Individual contribution and findings: While searching around we found out that diabetes is so common to human lives now a days, so why not to build a system that can be accessed by any common people. And to build this service we need machine learning as a base which turned out to be a plus point for me as I had already completed my course on machine learning and got a practical area to implement all the ideas and knowledge. We have modified the existing model with higher accuracy. But it was not that easy to go in one-go. Like we have to come across data manipulation as some of the data were Null. My part in the project was to make the data useful by doing data re-engineering process and implemented a algorithm known as Random Forest Classifier and did some hyper parameter optimization to get the best result. I also got many challenges on my way, while I was creating GUI for this system and finally got one module named as tkinter which was able to solve many problems unlike "matplotlib.pyplot" which is only helpful to show info in console. Tkinter GUI helped us to show info in a new window successfully.

Individual contribution to project report preparation: For the preparation of the project report I was assigned Data-preprocessing, Random Forest Classifier and GUI.

Individual contribution for project presentation and demonstration: My contribution in preparing presentation was as follows: Introduction, Random Forest Classifier, Graphical User Interface(GUI), Literature Survey, Data flow diagram, Improvements.

Full Signature of Supervisor:

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Full signature of the student:

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