Name of the project: Diabetes prediction

Student Group members:

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Description of the project:

Numerous people suffer from diabetes, one of the most serious diseases. Age, obesity, inactivity, inherited diabetes, lifestyle, poor food, high blood pressure, and other factors can all contribute to diabetes. Diabetes increases a person's chance of developing several illnesses, including heart disease, renal disease, stroke, vision problems, nerve damage, etc. A variety of tests are currently used in hospitals to get the data needed to diagnose diabetes, and depending on that diagnosis, the proper therapy is given. The healthcare sector greatly benefits from data analytics. Databases in the healthcare sector are very vast. By analyzing large datasets using data analytics, one may learn from the data and make accurate predictions .

Objectives:
i)Utilizing machine learning methods, create a model.

ii)To analyse the Diabetes dataset and create a prediction engine using the support vector machine and random forest methods.

iii)correlation of all the characteristics

iv) predict whether the diabetes exists or not

Area of specialization of learning: Data Analytics

Name of the domain: data science or machine learning