

Diabetes Prediction

Predicting Diabetes Risk Using Patient Healthcare Data

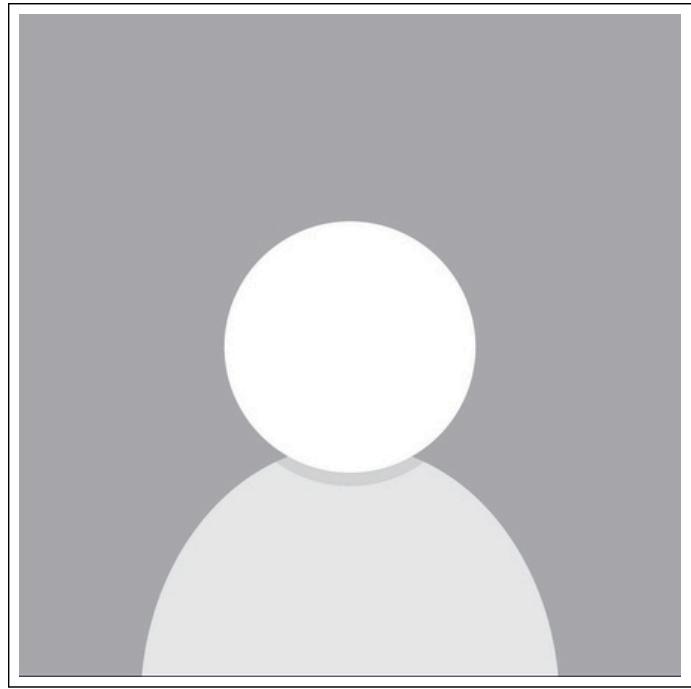
DATA 200

The Three Musketeers



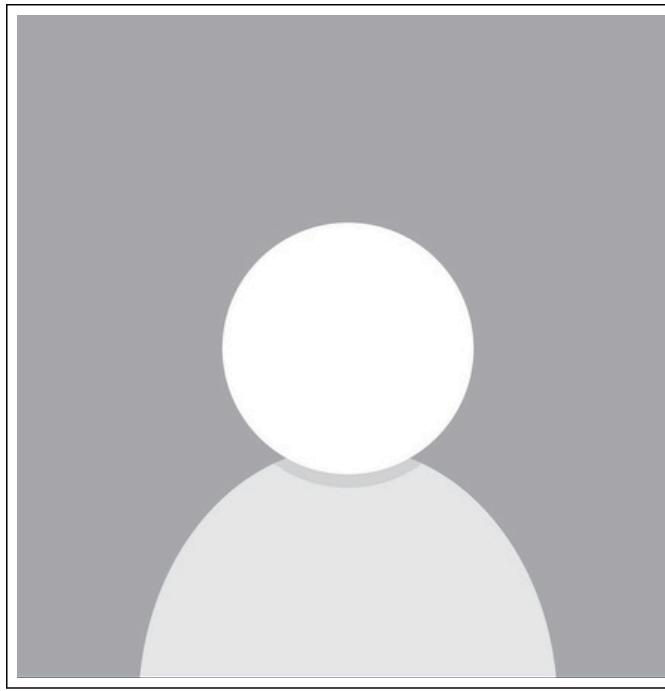


Our team



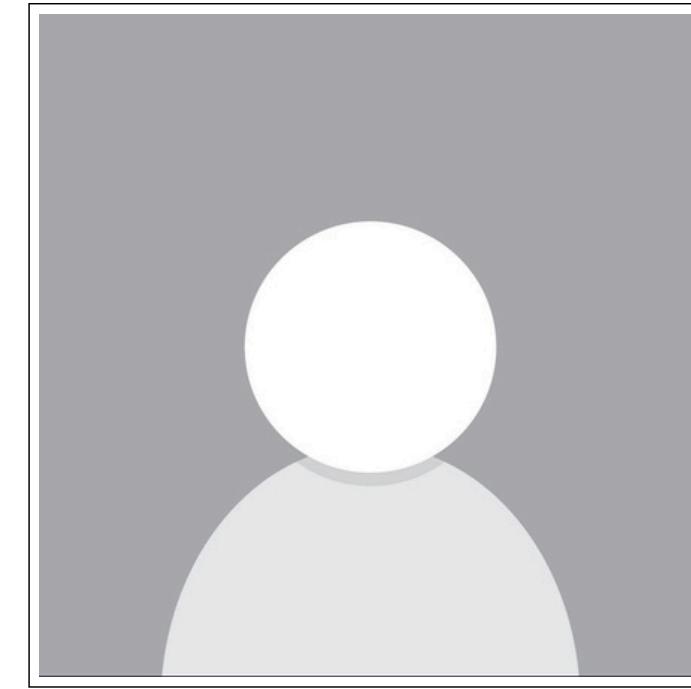
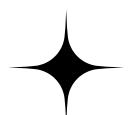
Sushant Ale Magar

Application Developer



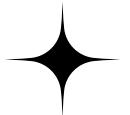
Bikram Timalsina

Project Lead / Data Analyst



Rojan Tamang

Statistical Analyst



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PROBLEM STATEMENT





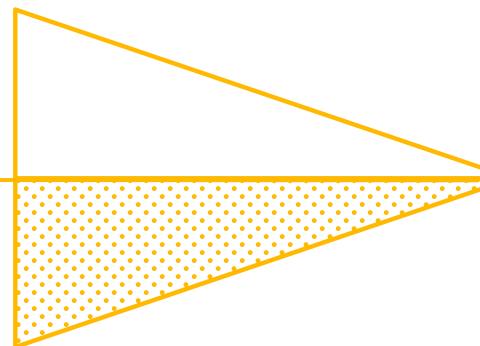
**"DIABETES IS A GROWING
CONCERN BECAUSE OF UNKNOWN
RISK FACTORS THAT CAN LEAD TO
SERIOUS COMPLICATIONS IF NOT
DETECTED EARLY "**

RESEARCH QUESTIONS

Can statistical models be used to predict early signs of diabetes based on patient health data?

Which health factors are most strongly associated with diabetes?

Proposed Methodology



Data Cleaning

Handle missing values, normalize data.

EDA

Explore patterns, correlations, and key risk factors.

Modeling

Use Logistic Regression to predict diabetes.

Validation

Check accuracy, precision, and key predictors.

Application

Develop a Python tool for diabetes risk prediction.