Disease Prediction Toolkit

Using Machine Learning to Predict Diabetes
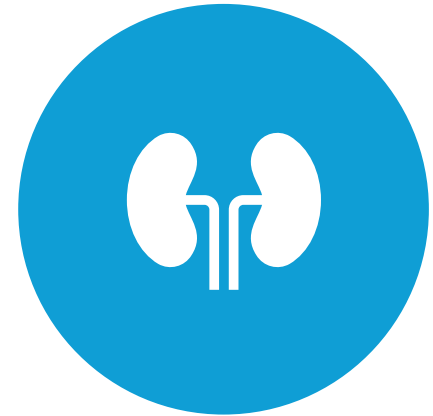
Dataset Overview

SOURCE: DIABETES.CSV

FEATURES: GLUCOSE, BMI, AGE, ETC.
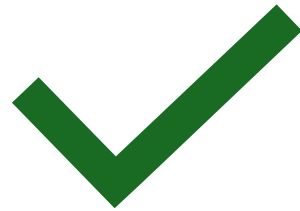
TARGET: OUTCOME (0 = NO DIABETES, 1 = DIABETES)

Machine Learning Models

Logistic Regression

Decision Tree

Random Forest

Model Evaluation

Metrics: Accuracy, Precision, Recall, F1 Score, ROC AUC

Visuals: Confusion Matrix, ROC Curve

Conclusion & Future Scope

Toolkit helps in early diabetes prediction

Can be extended to other disease

Future: Add more features, deploy as web app