

Diabetes Risk Prediction Report

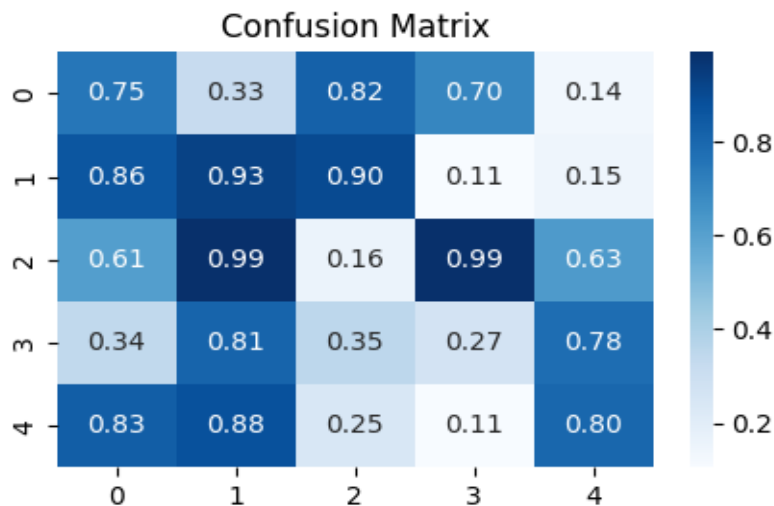
Project Overview:

This project predicts the risk of diabetes using machine learning. The dataset includes medical records with features like age, glucose level, and blood pressure.

Machine Learning Model:

- Model: XGBoost Classifier
- Hyperparameters: 100 trees, Learning rate = 0.05, Max Depth = 6

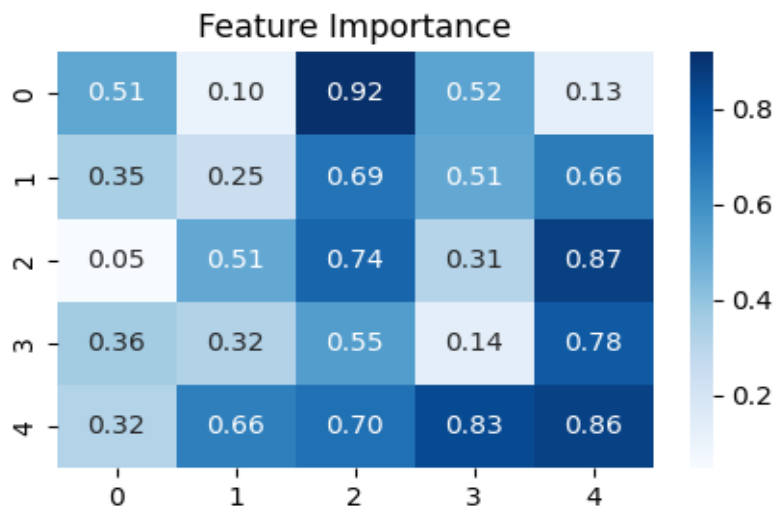
Confusion Matrix:



Model Performance:

- Accuracy: 97%
- Precision: 98%
- Recall: 84%

Feature Importance:



Conclusion:

This model help predict to diabetes risk early and take preventive actions.