LARGE GROUP PROJECT

CARDIO- HEART DISEASE PREDICTION WITH FRAMINGHAM HEART STUDY DATA

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Link: https://www.kaggle.com/code/muzammilrizvi1/heart-disease-random-forest/notebook

GitHub: https://github.com/srilekhananabala/CARDIO-HEART-DISEASE-PREDICITION.git

This is the dataset.

Columns - 16

Rows - 4240

Target variable - 10year CHD

Preprocessing:

We got missing values after running preprocessing.

Hyperparameter Tuning:

We have used Random Forest and did the hyperparameter tuning.

Best Parameters:

{'max_depth': 10, 'min_samples_leaf': 4, 'min_samples_split': 5, 'n_estimators': 100}

Model Building:

By using these best parameters, we built the random forest model.

Model Evaluation:

Model	Training Accuracy	Testing Accuracy
Random Forest	0.87	0.83