

Heart Disease Prediction

Afrah ALharbi

OUTLINE

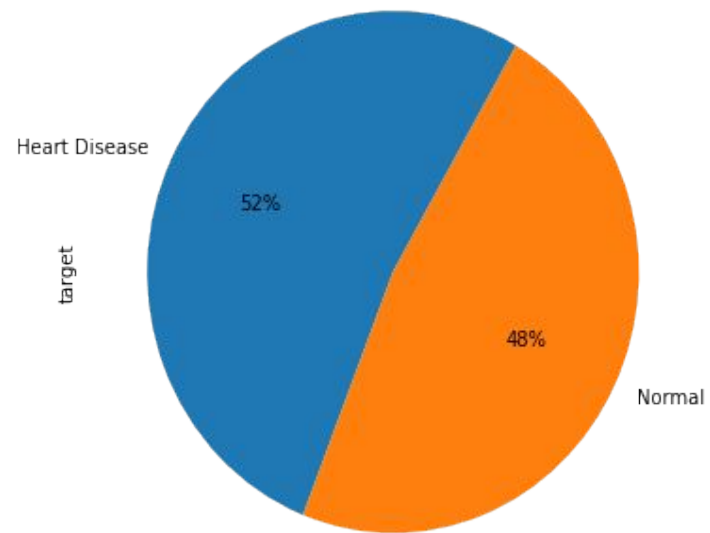
- Project overview
- EDA
- Model Building

Object Overview

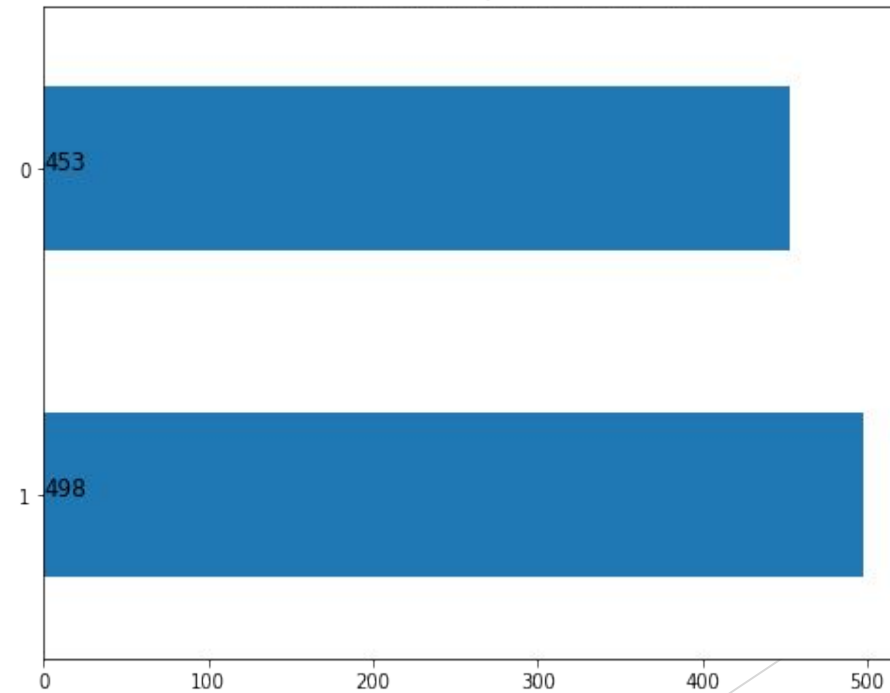
In this project, a comparative analysis of different classifiers was performed for the classification of the Heart Disease dataset in order to correctly classify and or predict HD .

EDA

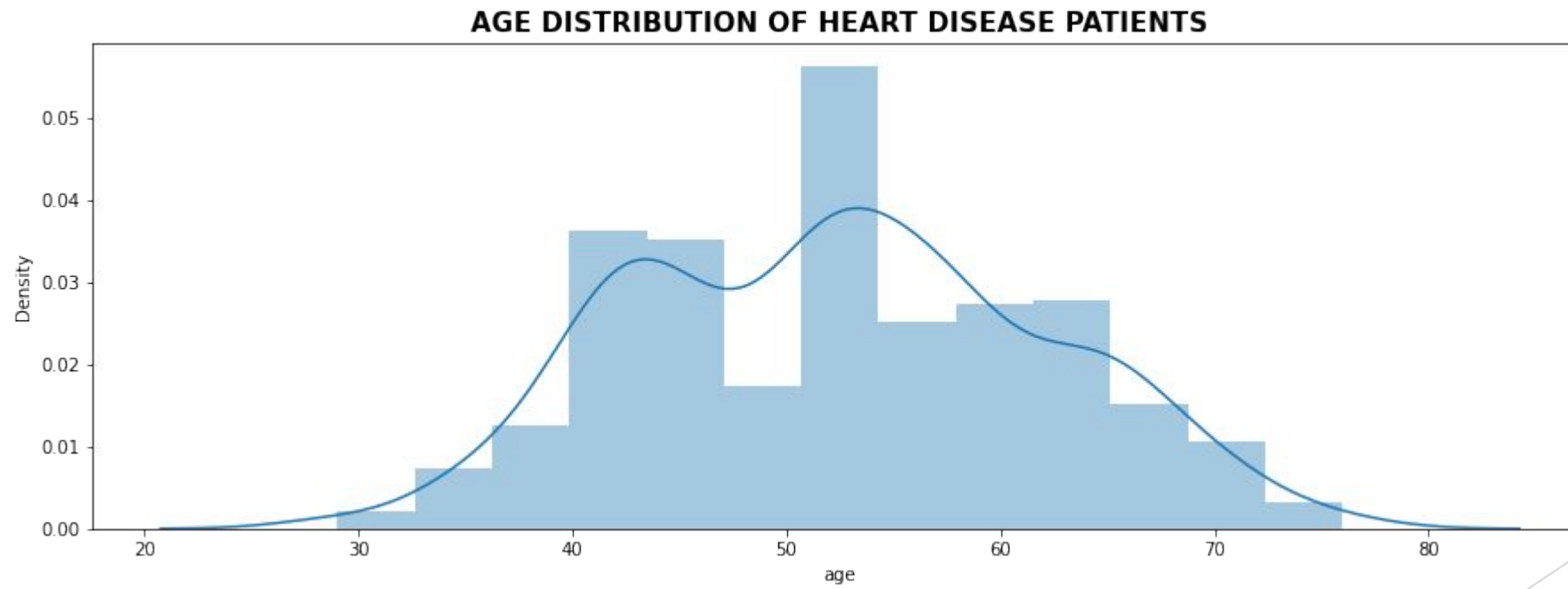
Percentage of Heart disease patients in Dataset



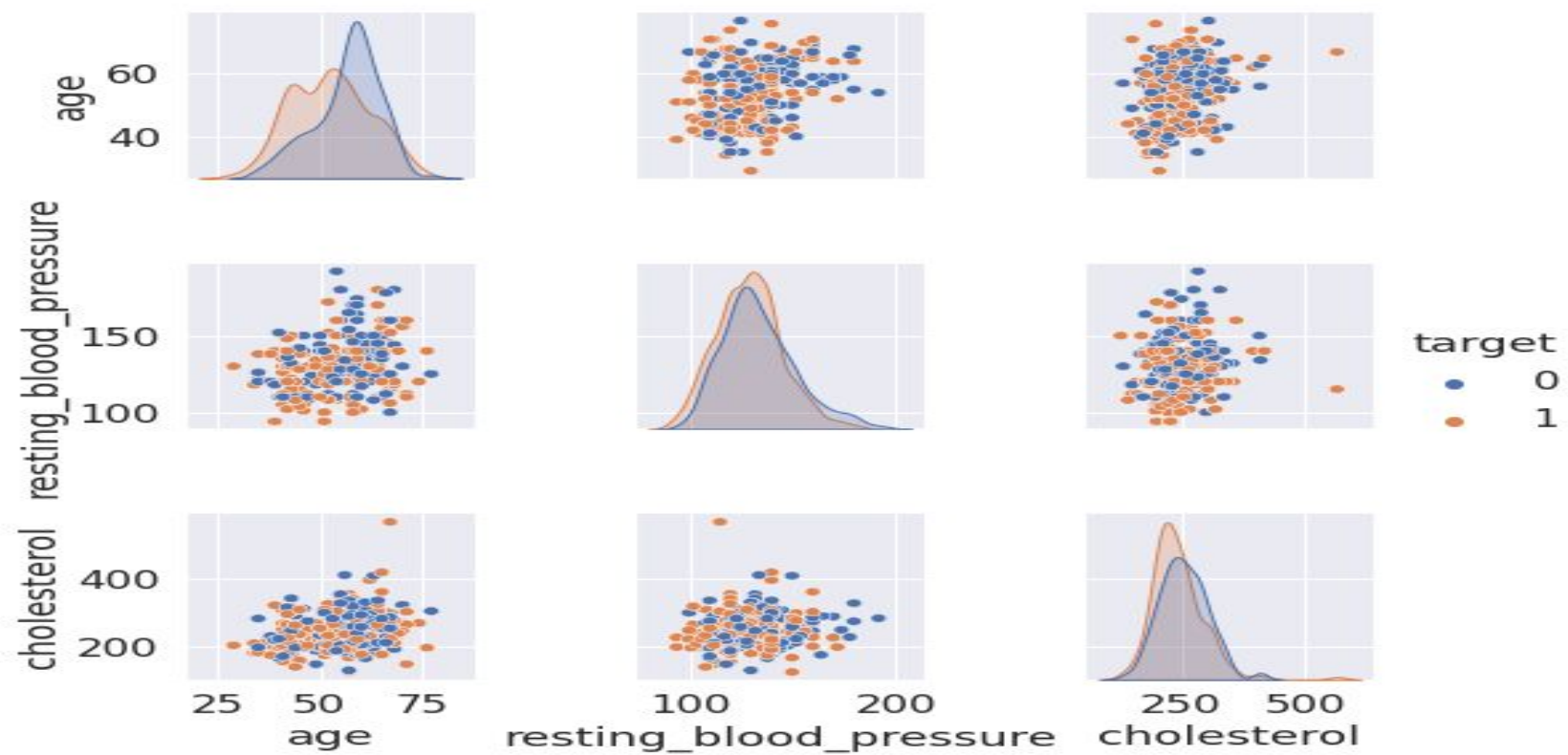
No. of Heart disease patients in Dataset



Distribution of Age



Distribution of Numerical features



Model Building

The machine learning algorithms used in the method are:

1. LogisticRegression .
2. KNeighborsClassifier.
3. DecisionTreeClassifier
4. RandomForestClassifier

After Comparing Scores between all Classifier :

Model: lr, Score: 0.840675117112152

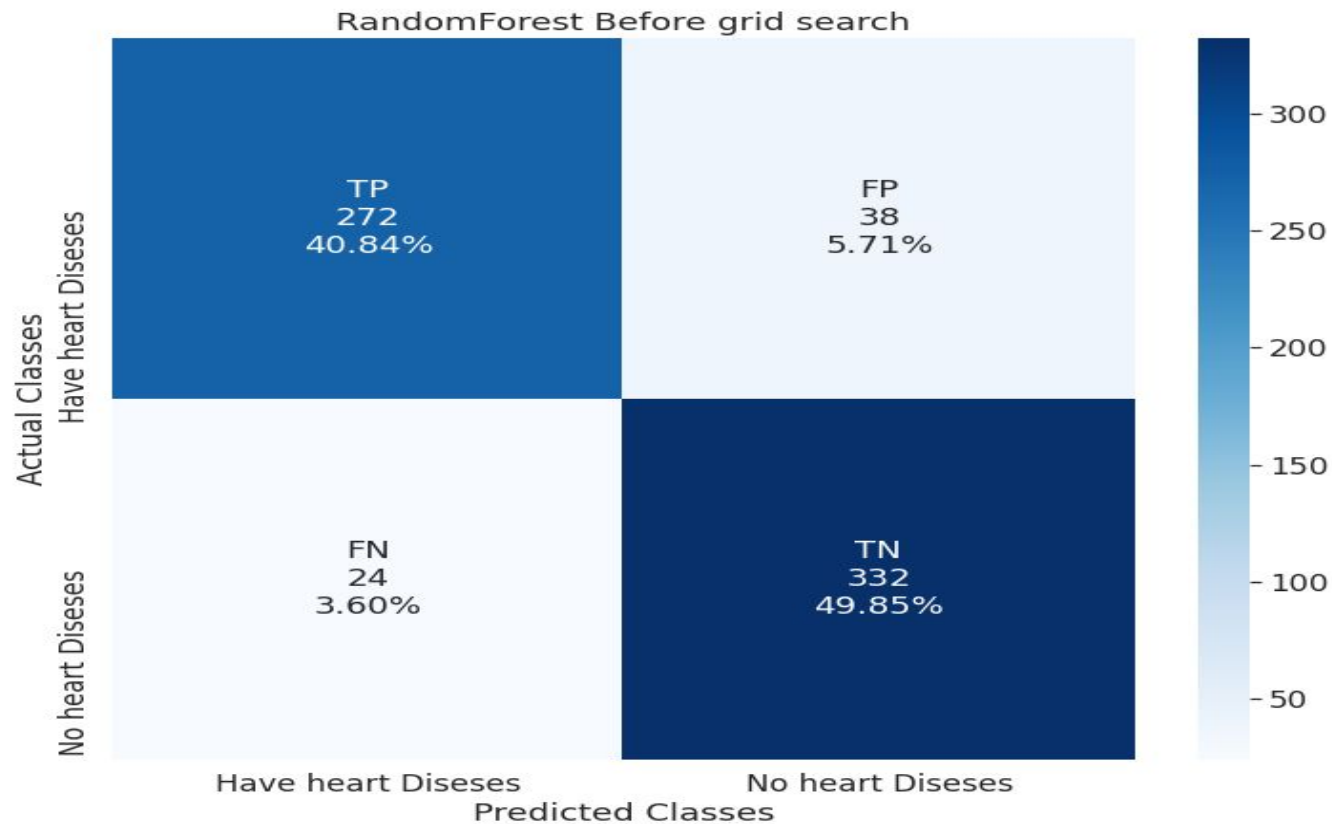
Model: knn, Score: 0.7266023697988426

Model: dt, Score: 0.9878947368421052

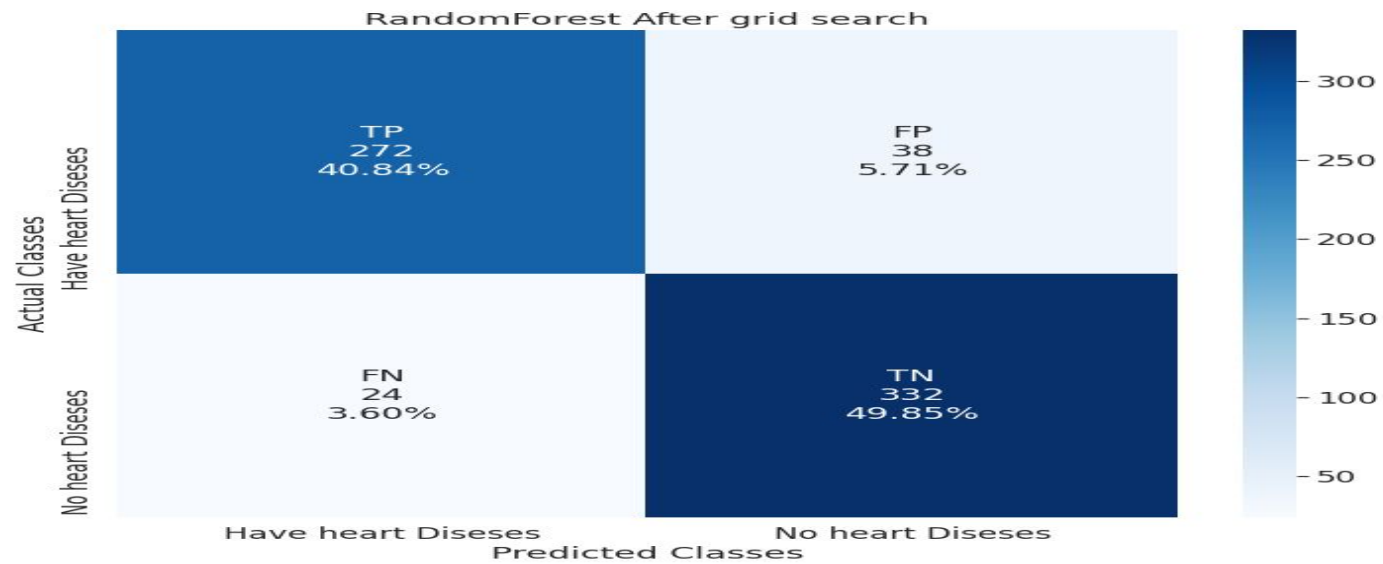
Model: rf, Score: 0.9905345825296225

The best Score at Random Forest Classifier

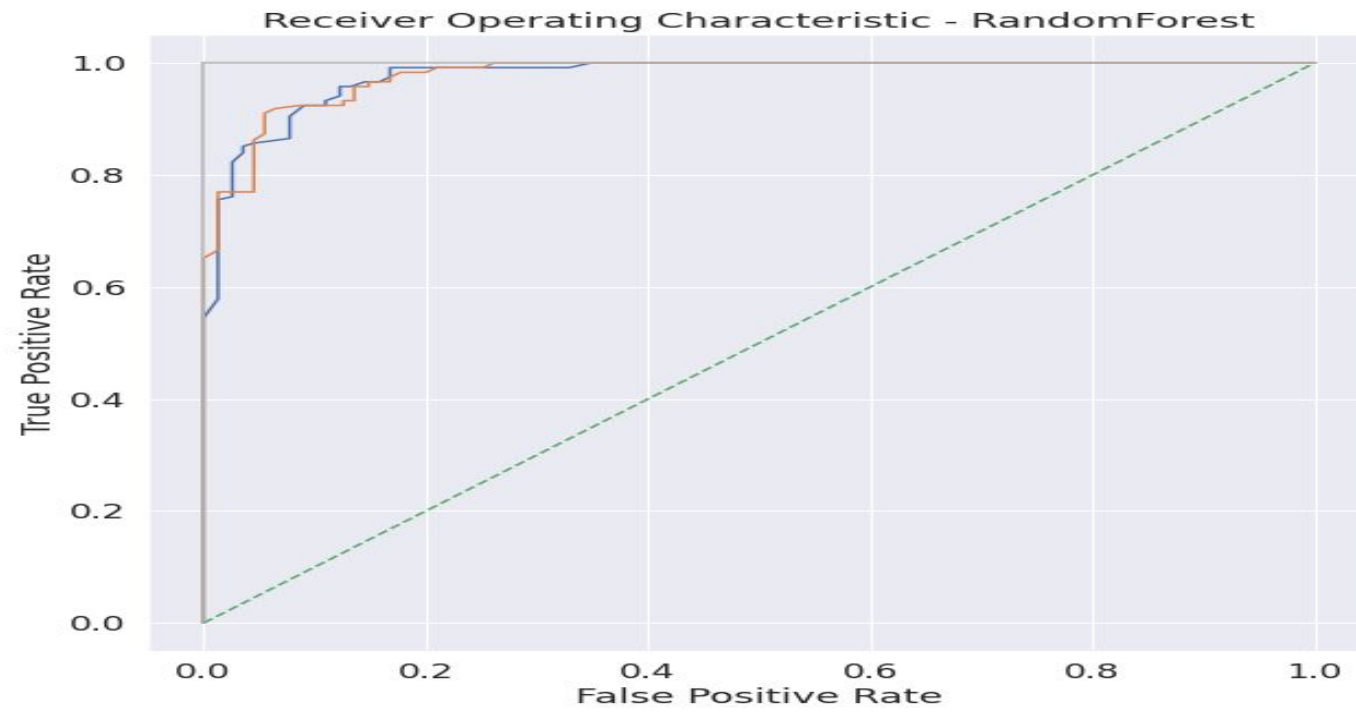
Result of Random Forest Model



Result of Random Forest Model



ROC - AUC



Thank you