





Cardio Disease







introduction

Cardiovascular diseases are the leading cause of death worldwide. In this "Cardio Disease" dataset, We'll use it to build classification models and try to analyze and gather the insights of a dataset and predict the possibility of a person having Cardiovascular disease based on various parameters specified in this dataset.





The cardiovascular disease dataset is found on Kaggle.

The data consists of 70,000 patient records and 13 features.







Tools





















Project Workflow



Chiacking duplicate Converting age from days to years



Feature Engineering

Drop columns (weight - height).

Add new column (bmi).

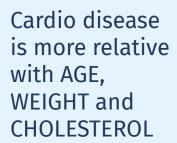
Remove outliers



Classification







Baseline

	Score train	Score Test
LogisticRegression	0.716	0.719
Polynomial(degree=2)	0.708	0.710

Model Scores

Classifier	Accuracy	F score	Precision	Recall
Logistic Regression	0.720	0.714	0.747	0.684
K-nearest neighbors	0.720	0.710	0.754	0.671
Decision Tree	0.726	0.726	0.743	0.711
Random Forest	0.669	0.681	0.671	0.691
Extra Trees	0.647	0.661	0.650	0.671
Bernoulli Naive Bayes	0.519	0.653	0.517	0.887
Gaussian Naive Bayes	0.708	0.688	0.757	0.631

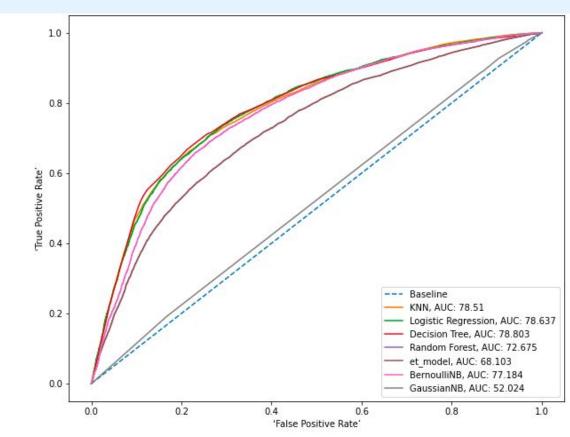




Decision Tree

Accuracy	F score	Precision	Recall
0.726	0.726	0.743	0.711













































Thanks!





