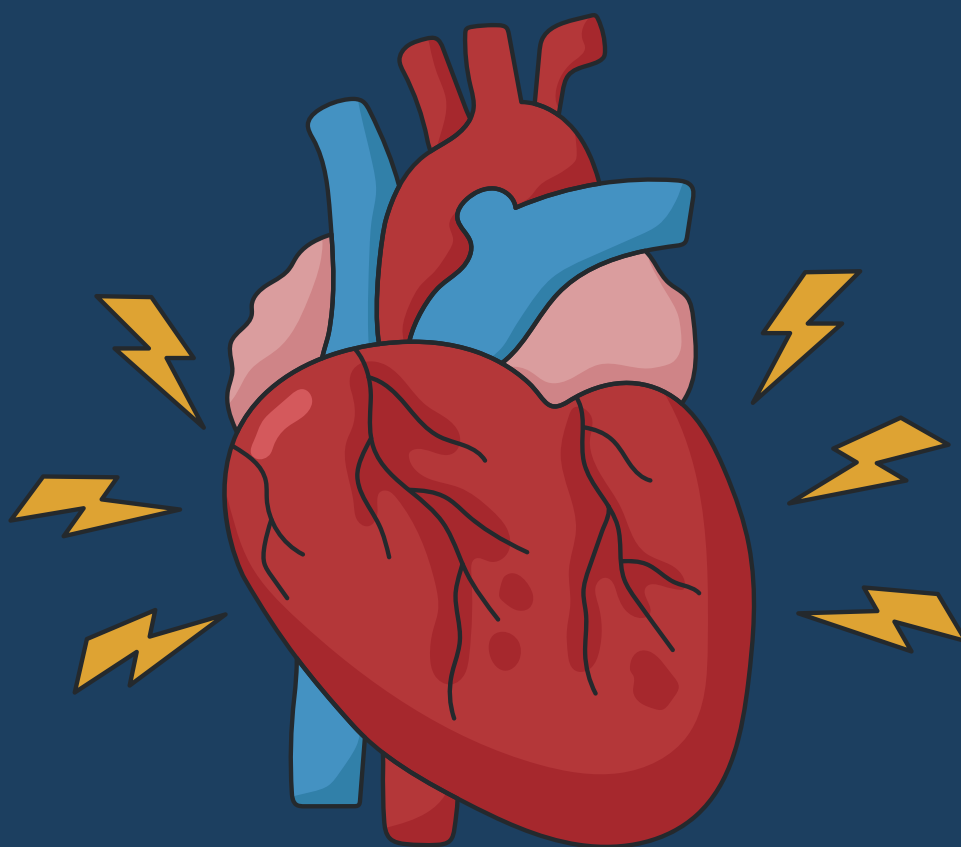


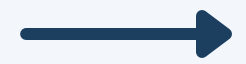


Heart Disease Classification ML Model

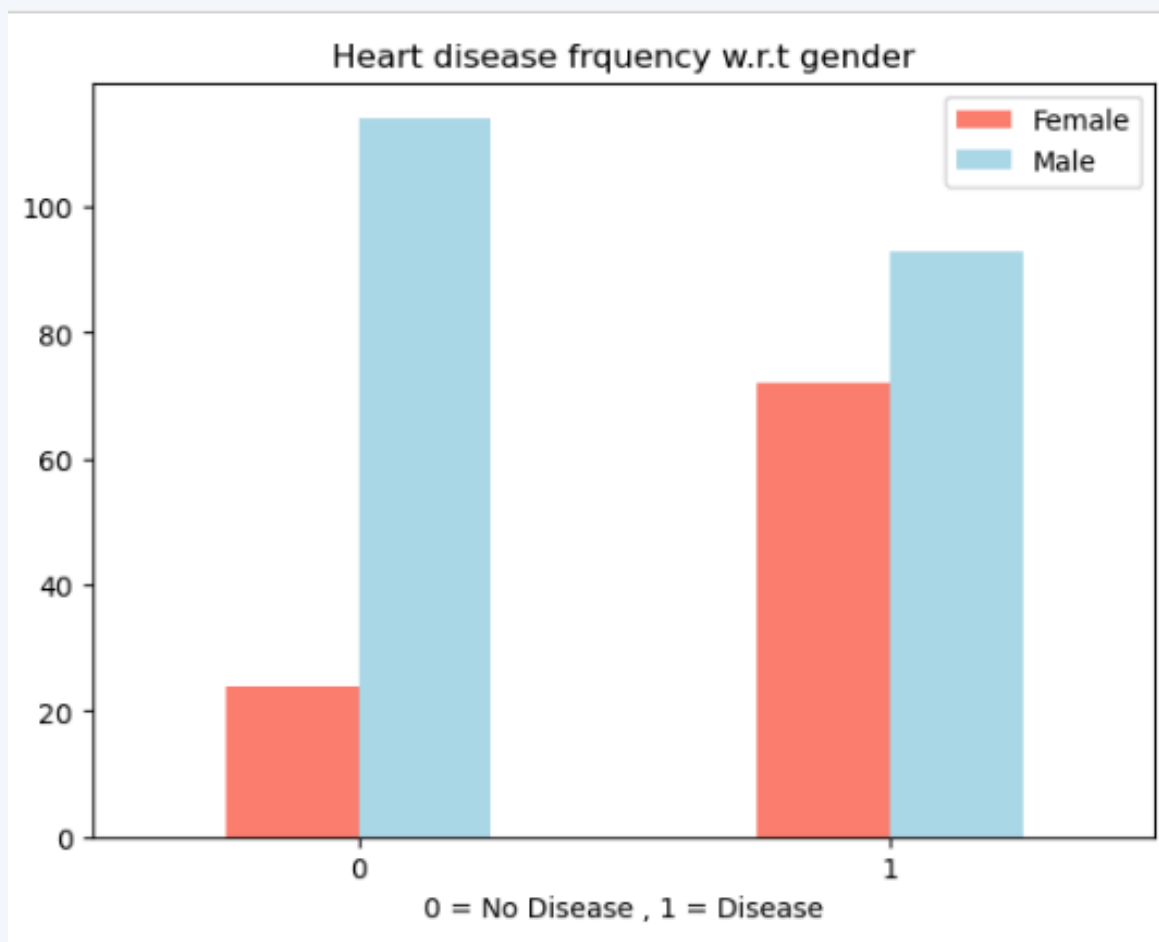
USING SCIKIT LEARN



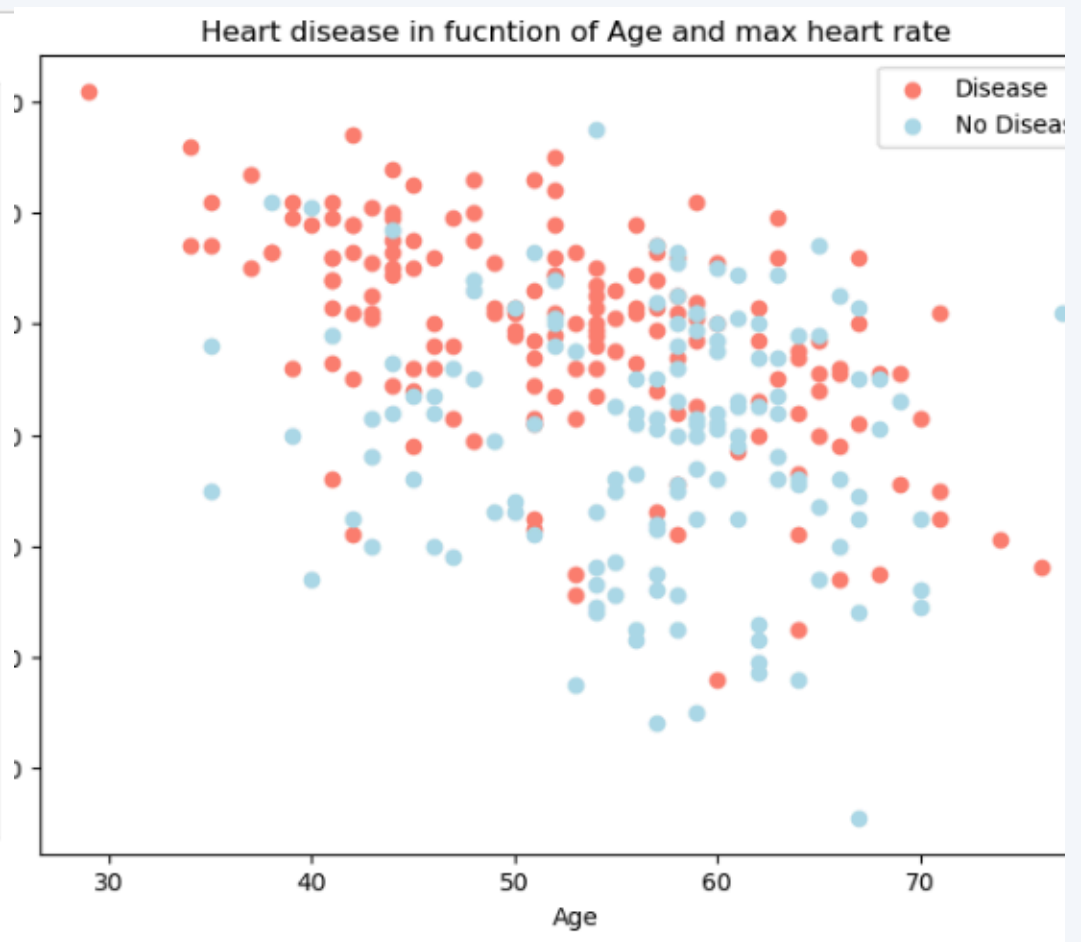
@al1.nasir



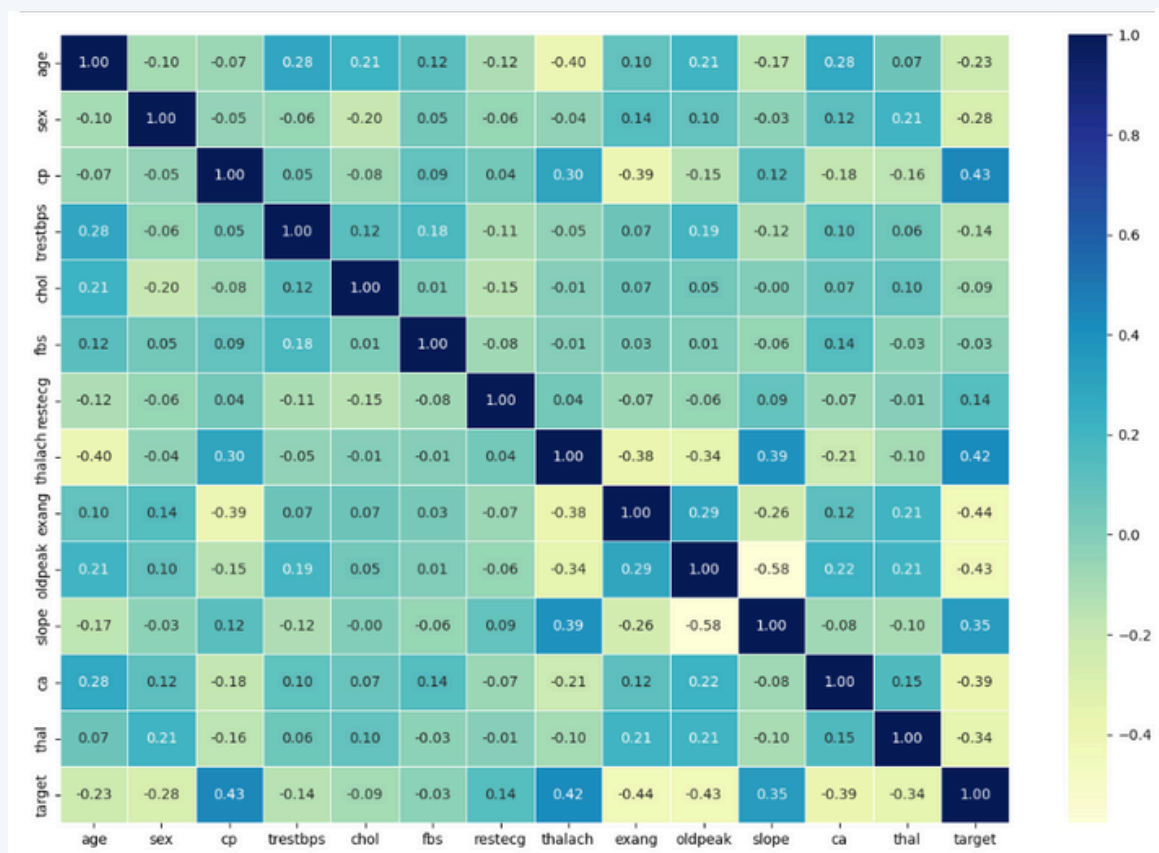
Exploratory Data Analysis



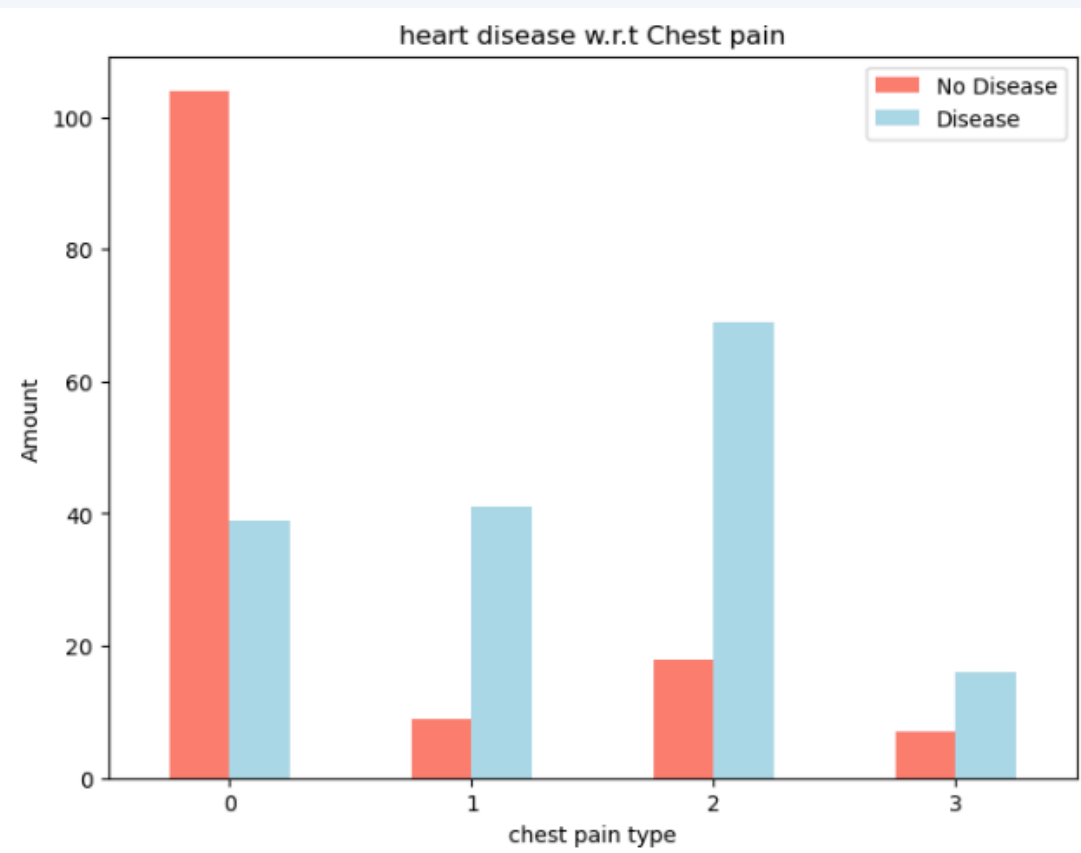
Bar Plot



Scatter Plot



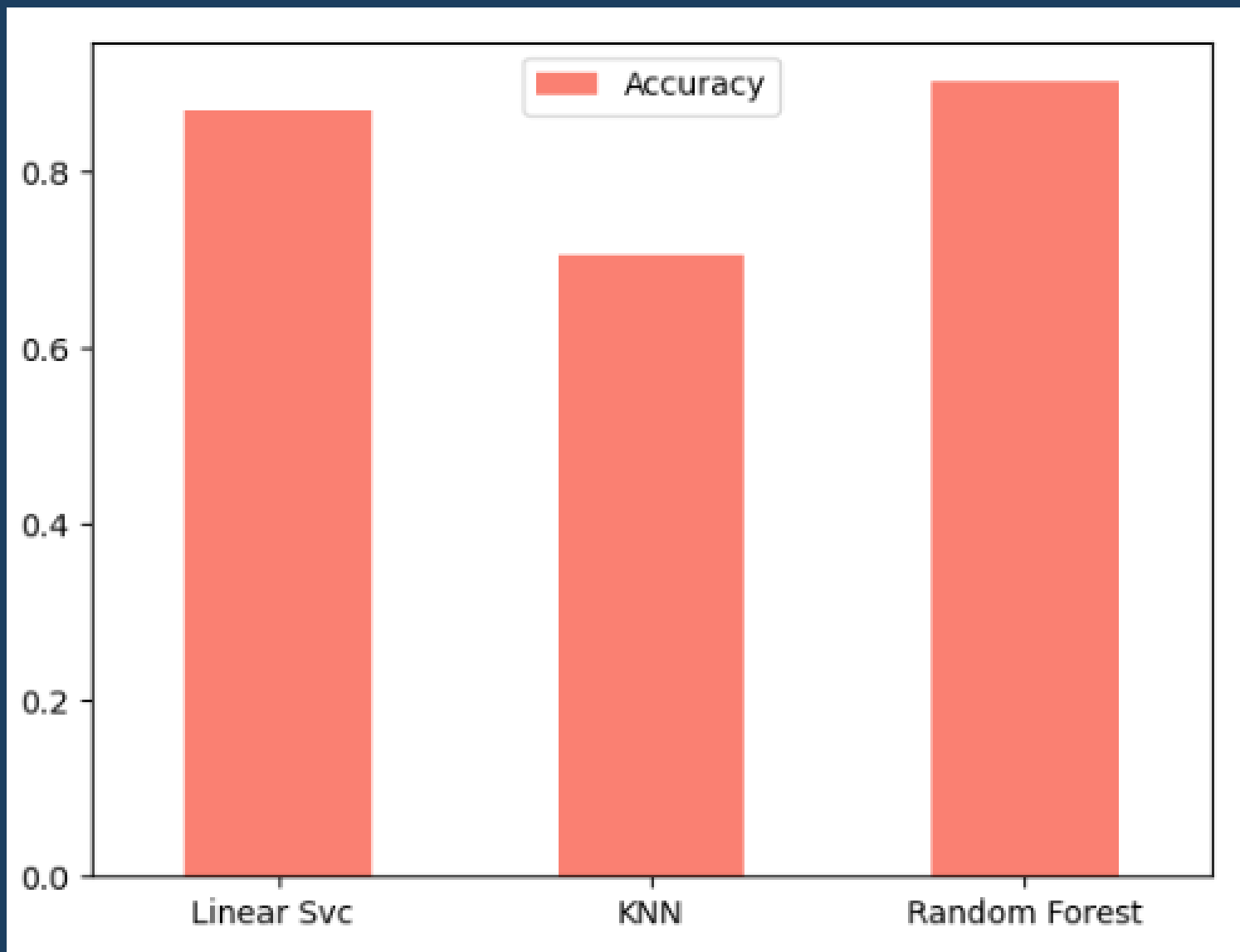
sns HeatMap



Bar Plot

... and many more

Model Fitting

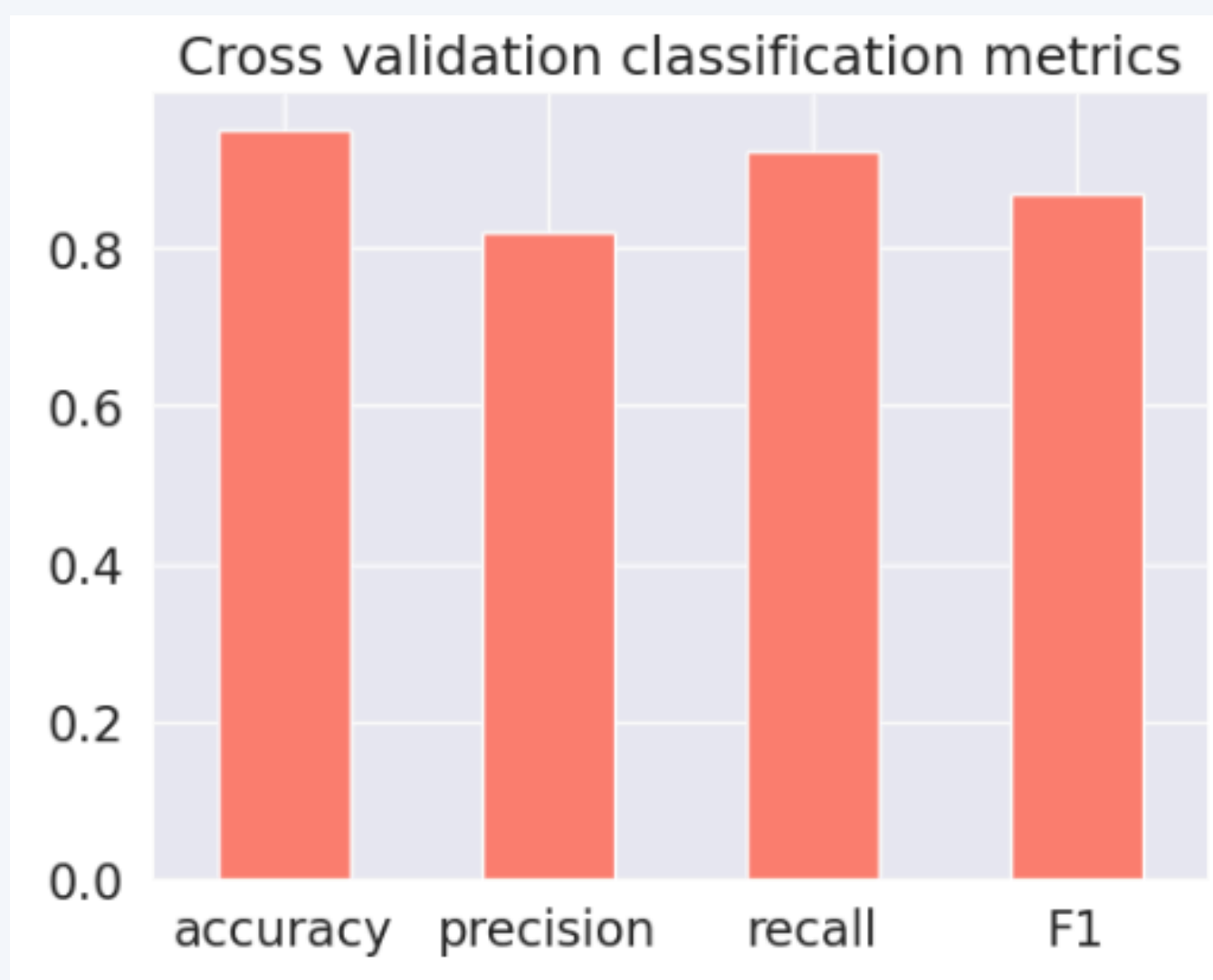


- **Linear SVC:**
Linear classifier finding optimal hyperplane.
- **K-Nearest Neighbors:**
Classifies based on closest neighbors.
- **RandomForestClassifier:**
Ensemble of decision trees classifier.



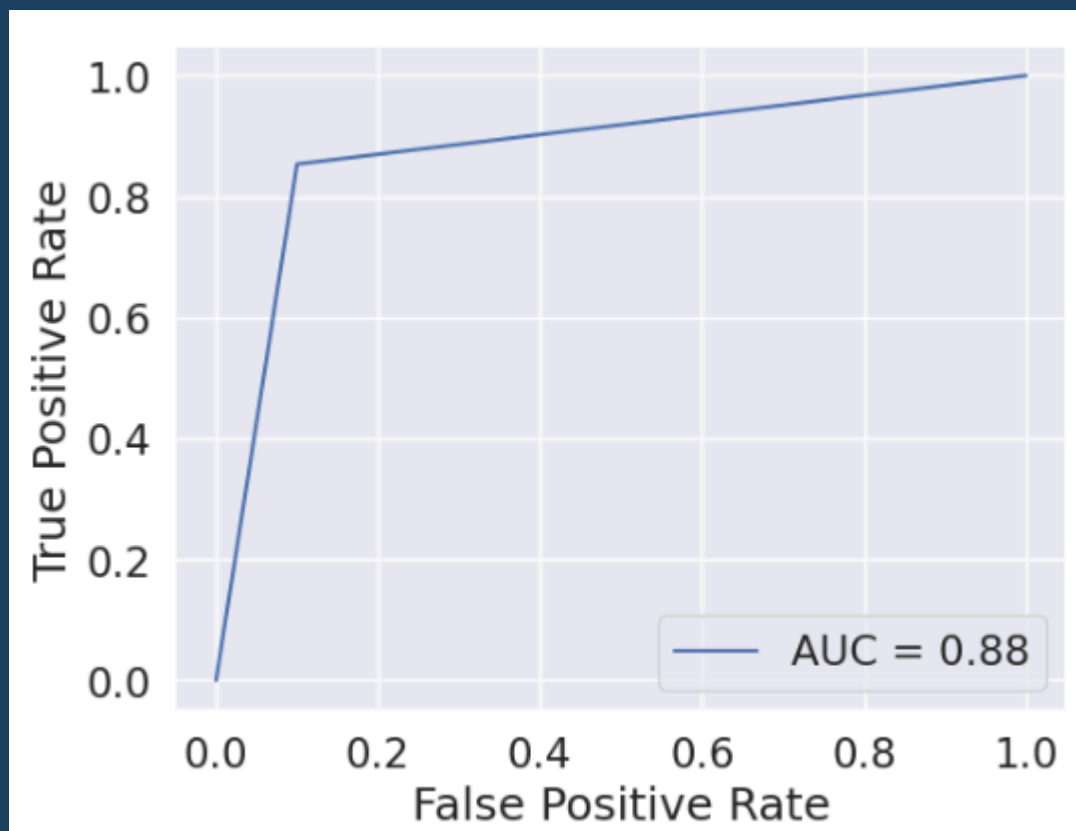
Hyperparameter tuning

with randomized search cv
and Grid Search Cv



Improving results using Randomized and Grid Search CV to find optimal parameters , then fine tuning logistic regression model.

Evaluating Model



The ROC curve plots true positive rate against false positive rate, illustrating the diagnostic ability of classifier system.

Classification metrics evaluate the performance of a classification model using measures like accuracy, precision, recall, and F1-score.

predicted label	0	1
	18	6
1	2	35
true Label		

... and many more

Look out my other projects

LEAVE A COMMENT BELOW



Github: github.com/al1-nasir

Kaggle: kaggle.com/al1nasir