

1- I've chosen this data set from Kaggle [Heart Failure Prediction Dataset | Kaggle](#)

2- Main findings : S_T slope highly correlated with heart disease , data has been gathered from males more than females however heart disease more likely to occur in men than females , Exercise Angina more likely to keep heart diseases away , if ST_slope tends to be up individual more likely to get a heart disease

3- [XGBoost + Optuna](#)  [Hyperparameter tuning](#)  | [Kaggle](#) Used it as plot function reference.