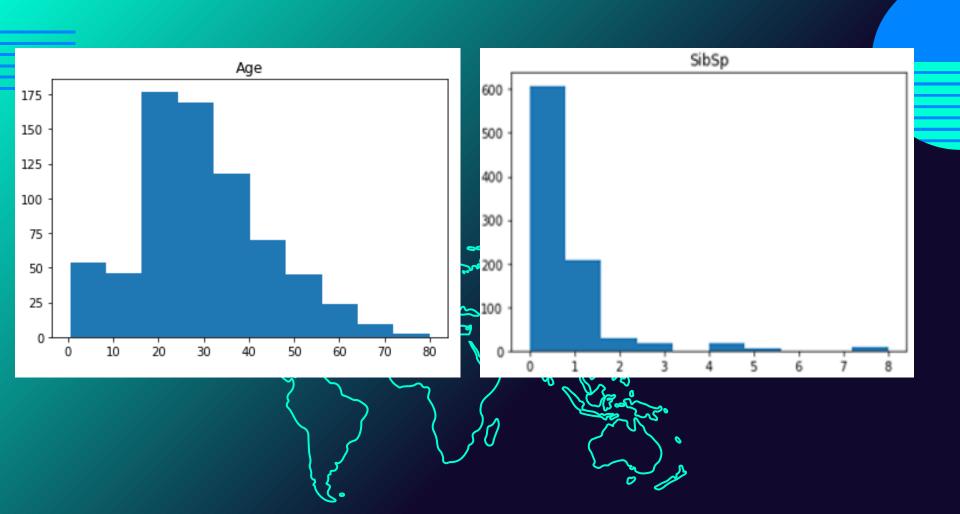
EDA on Titanic Dataset using Voting Classifier

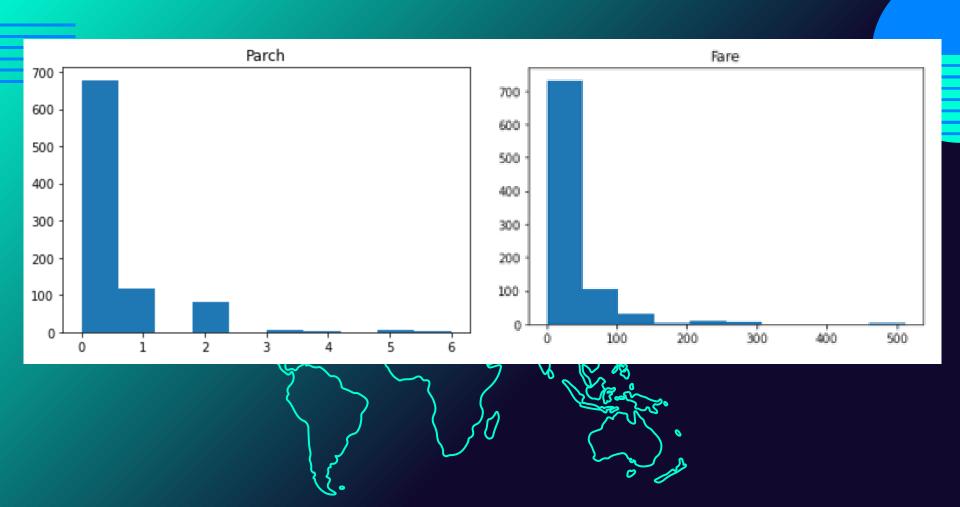


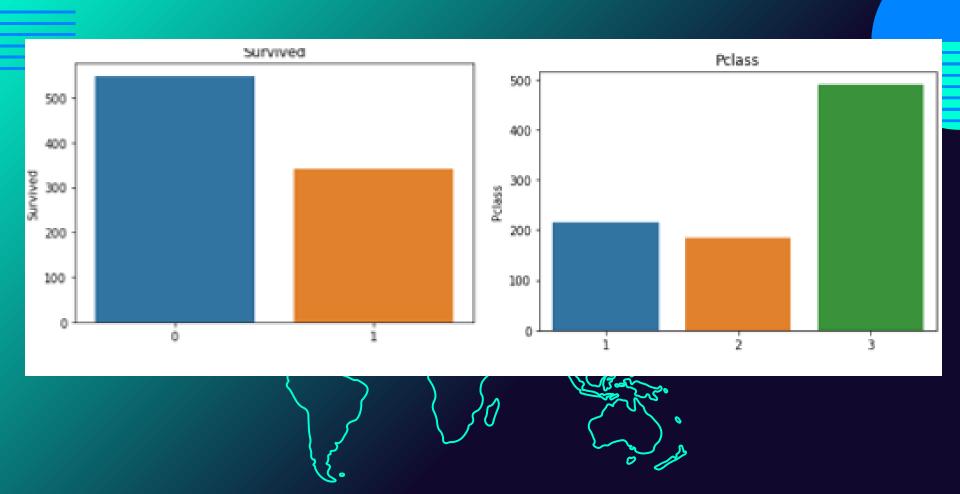
01. E D A

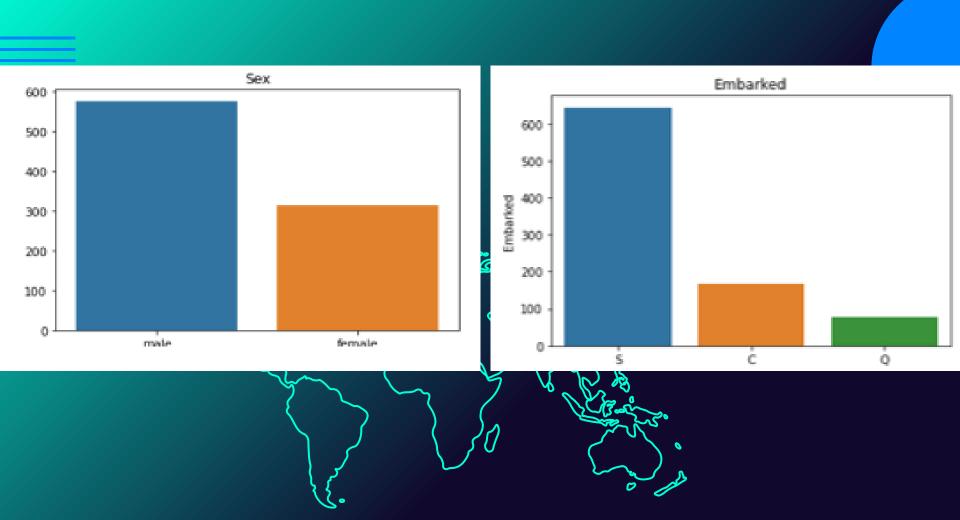
Exploratory Data Analysis

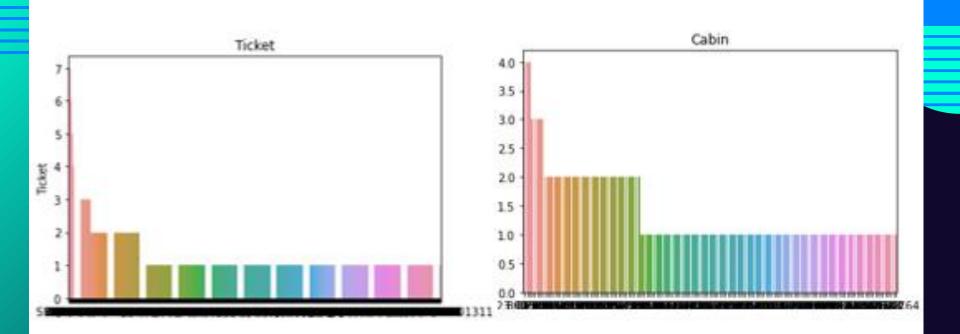










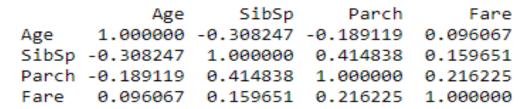




02.
Heatmap

Correlation Analysis









03. Machine Learning

Feature Engineering & Tuning



Model	Baseline	Tuned Performance
Naive Bayes	72.6%	NA
Logistic Regression	82.1%	82.6%
Decision Tree	77.6%	NA
K Nearest Neighbor	80.5%	83.0%
Random Forest	80.6%	83.6
Support Vector Classifier	83.2%	83.2%
Xtreme Gradient Boosting	81.8%	85.3%



voting_clf_hard : [0.79213483 0.81460674 0.82022472 0.79775281 0.836 15819]

voting_clf_hard mean : 0.8121754586427983

voting_clf_soft : [0.78651685 0.82022472 0.81460674 0.79775281 0.853

10734]

voting_clf_soft mean : 0.8155652891512728

voting_clf_all : [0.80898876 0.83146067 0.8258427 0.80898876 0.8587

5706]

voting_clf_all mean : 0.8268075922046595

voting_clf_xgb : [0.82022472 0.8258427 0.83146067 0.80898876 0.8700

565]

voting_clf_xgb mean : 0.8313146702215451



Fitting 5 folds for each of 7 candidates, totalling 35 fits

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 4 concurrent w orkers.

[Parallel($n_jobs=-1$)]: Done 35 out of 35 | elapsed: 22.9s finish ed

VC Weights

Best Score: 0.831321018218752

Best Parameters: {'weights': [1, 1, 1]}

0 410

1 8

Name: difference_hard_all, dtype: int64



THANKS

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