FLIGHT PRICE PREDICTION

Developed By-



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Introduction



As we know, Flight ticket prices can be something hard to guess,

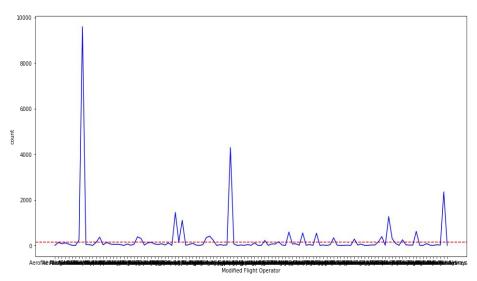
So we aimed to predict the price for the future travel dates.

To achieve this, we used a web scrapped ease my trip's data for the prediction

Dataset: From Kaggle(Make My Trip Dataset): Ratio Division 3:1 [Train:Test]



Encoded Airlines

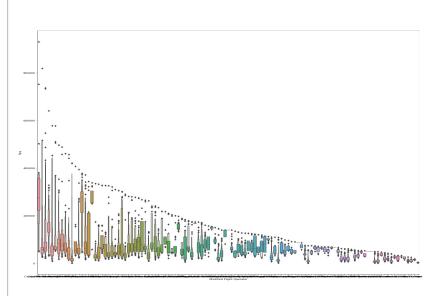


1) Airlines Count Dependency

1st plot= Airlines against count.

Inference= some Airlines has major usage.

Red Line is a median line dividing graph on 0.05 percent of count.



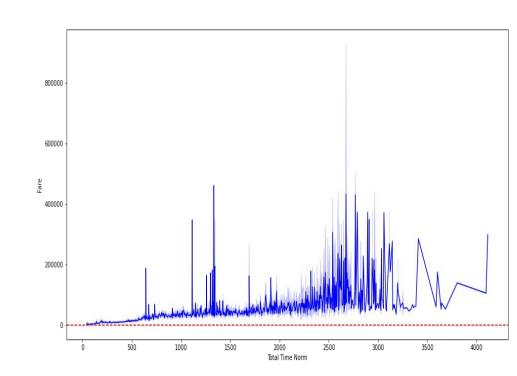
2.) Modified Flight Count

Catplot for checking outliers of airlines asper their price range.

Lower Outlier = Q1 - (1.5 * IQR)Higher Outlier = Q3 + (1.5 * IQR)

Time Taken Normalization

- Preprocessing on the basisof the data.Converted the ddmmyy to minutes
- 2) Dependency of the Price on the basis of the time of fly.



Source Count

Line Plot of Source vs Count

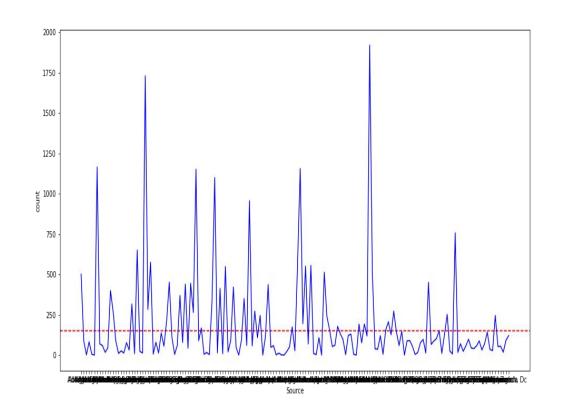
Red line is divider on basis of count

having more than 1 percent.

Inference:

Some Source have major usage. And are high above in one percent range.

Possible Feature



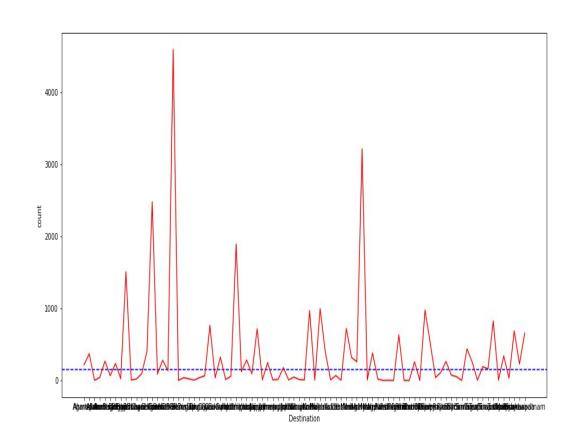
Destination Of The Fly

Line Plot of Destination vs Count

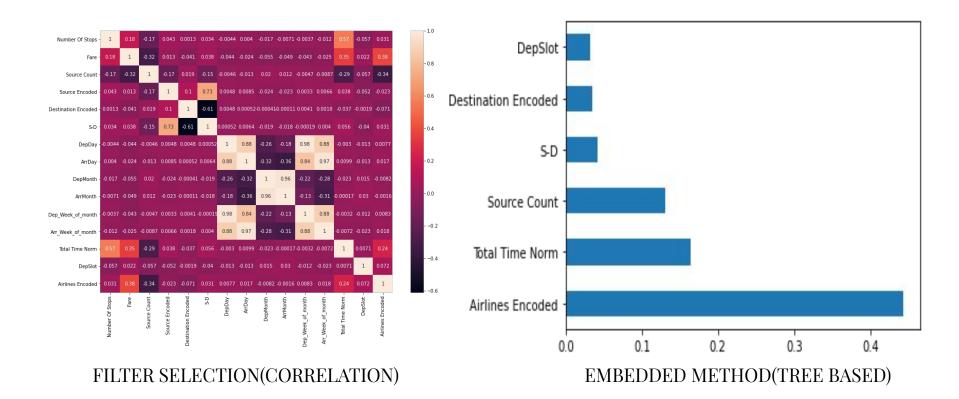
Red line is divider on basis of count
having more than 1 percent.

Inference:

Possible pair formation of higher source count with their destination count.



Feature Selection



Algorithm Analysis

ALGORITHM	OBTAINED R2 SCORE
Linear Regression	0.21
Support Vector Regressor	0.10
XGBoost (Tree based)	0.48
Random Forest	0.61

Thank You

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Daim's Github: https://github.com/Daim-Nickel-Penny

Manas's Github https://github.com/ManasChandan

