

# *Predicting Taxi out Time*

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# Project Brief

Data about flights leaving from JFK airport between Nov 2019-Dec-2020.

Data was scraped under a Academic Paper under Review by IEEE transportation

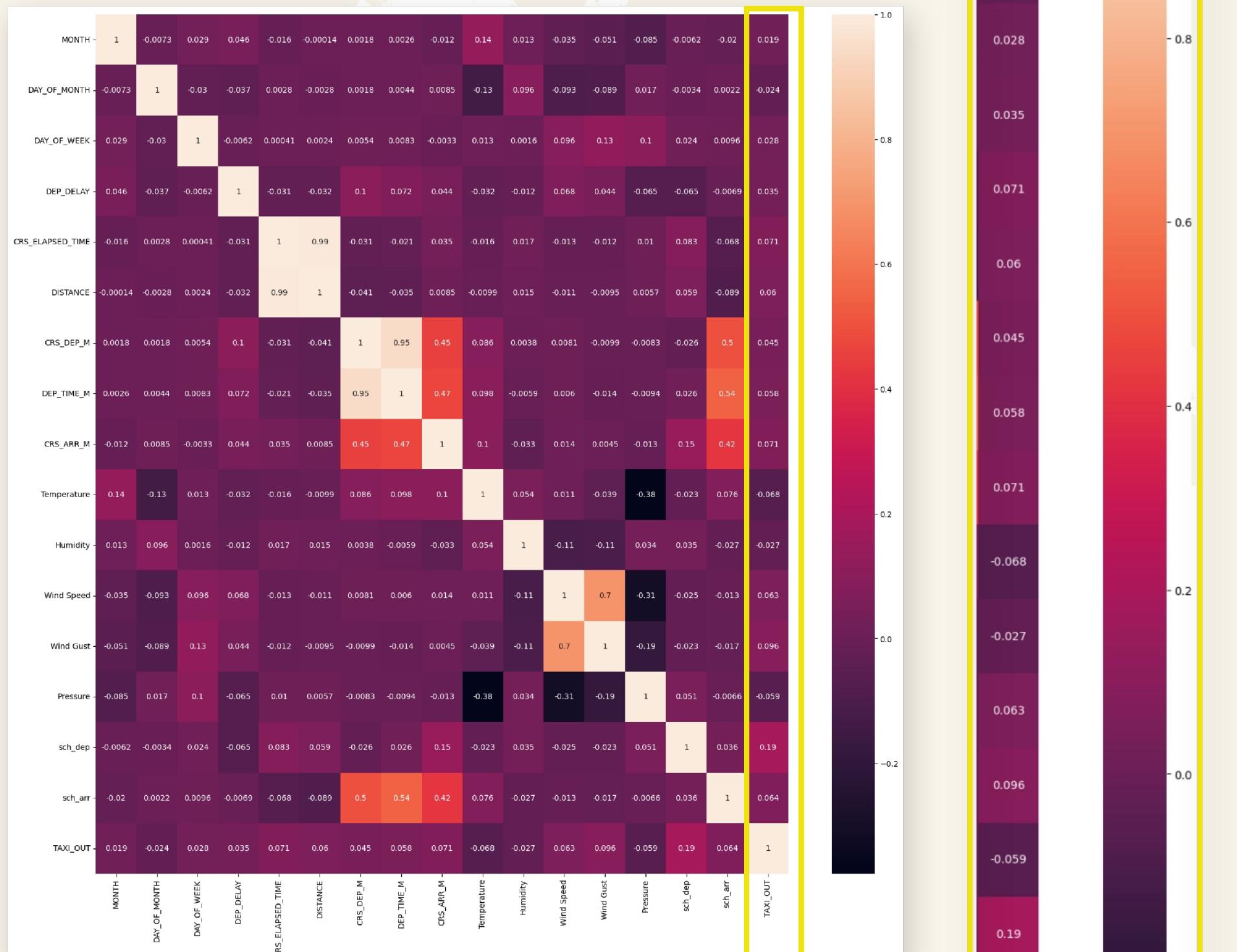
Taxi-Out prediction has been an important concept as it helps in calculating Runway time and directly impact the cost of the flight

# Taxi out

The duration between a flight's actual off-block time and its actual take off time.

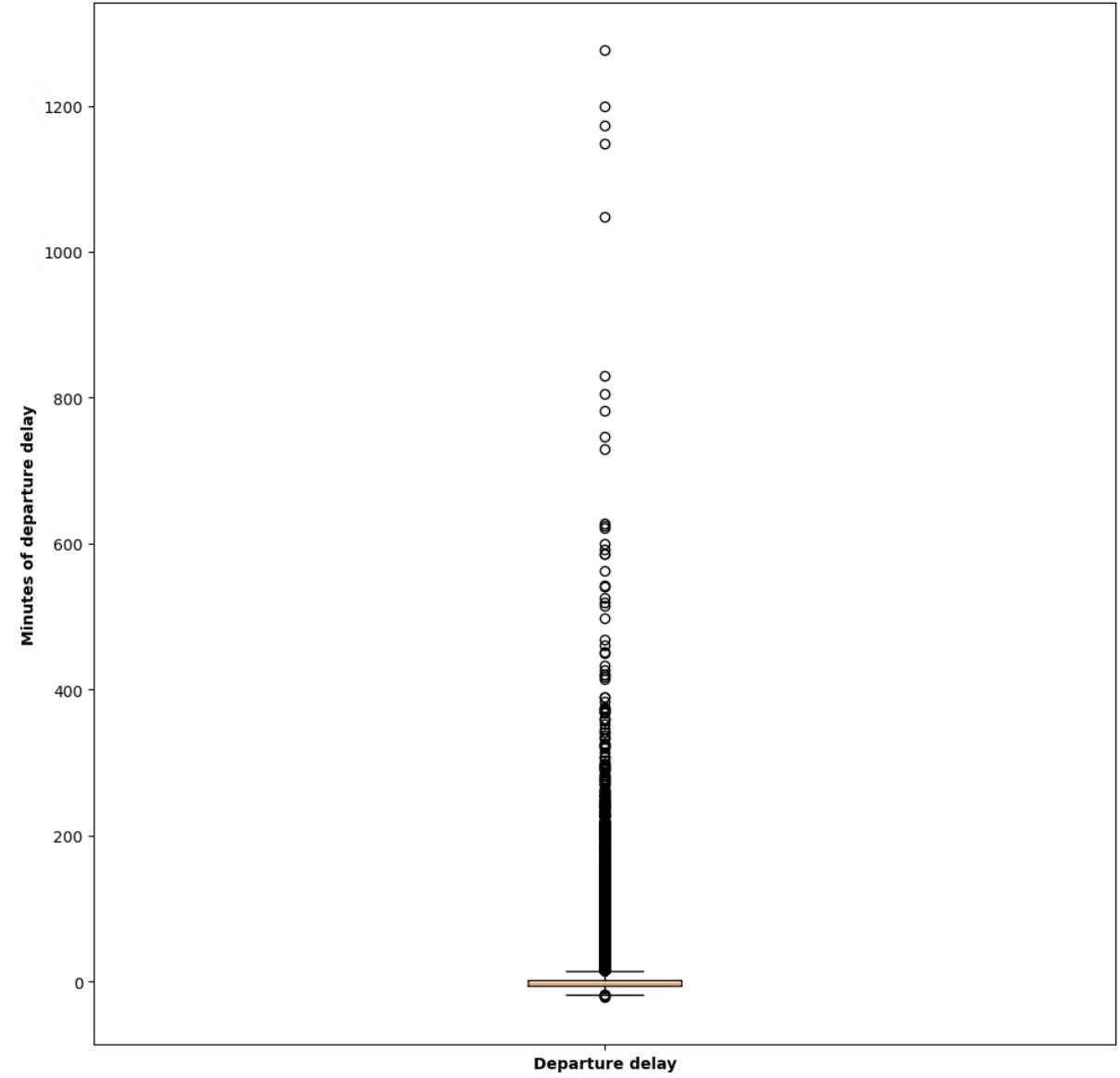


# Correlation matrix



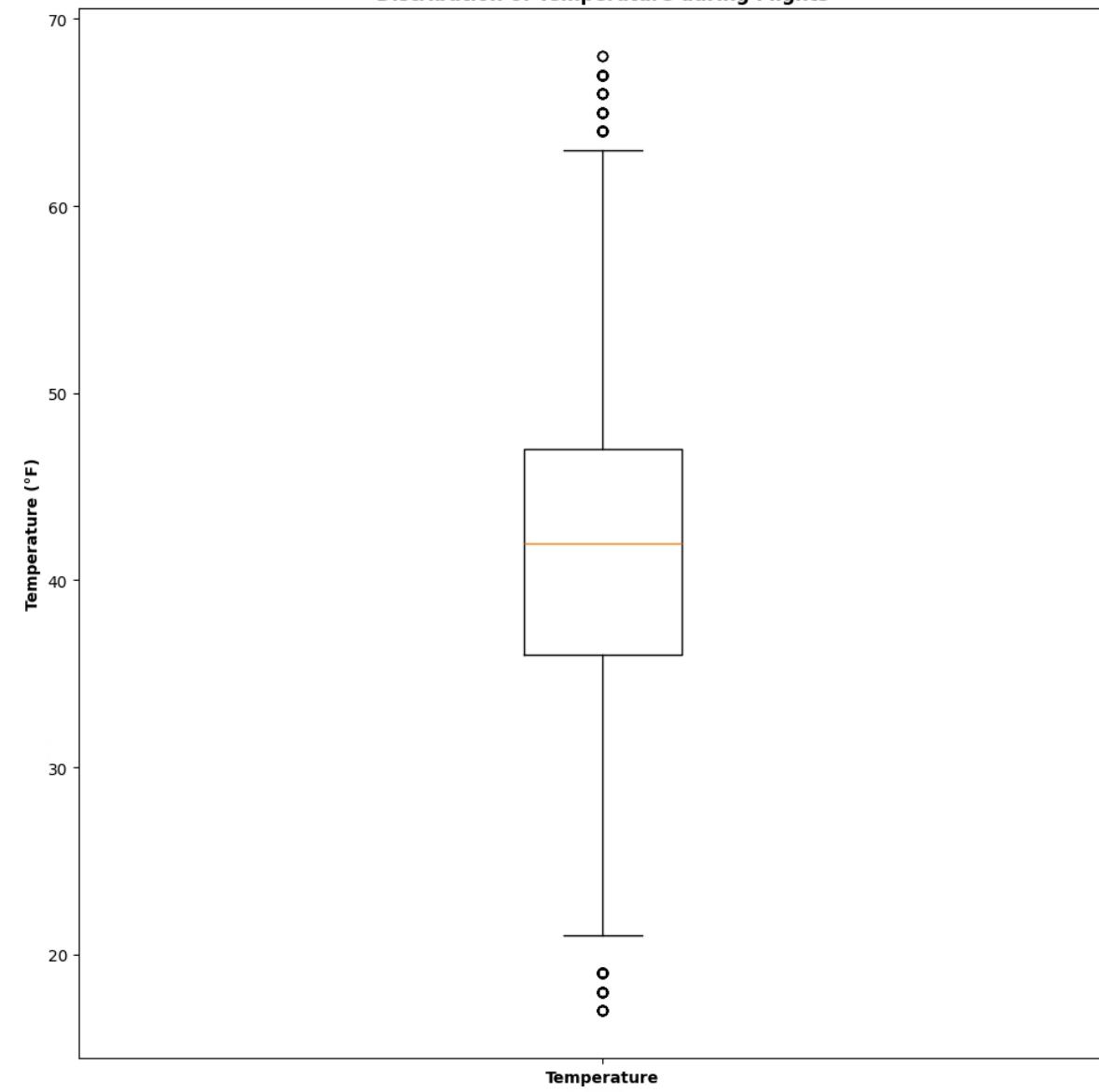
Taxi\_out

**Minutes of departure delay by flight**

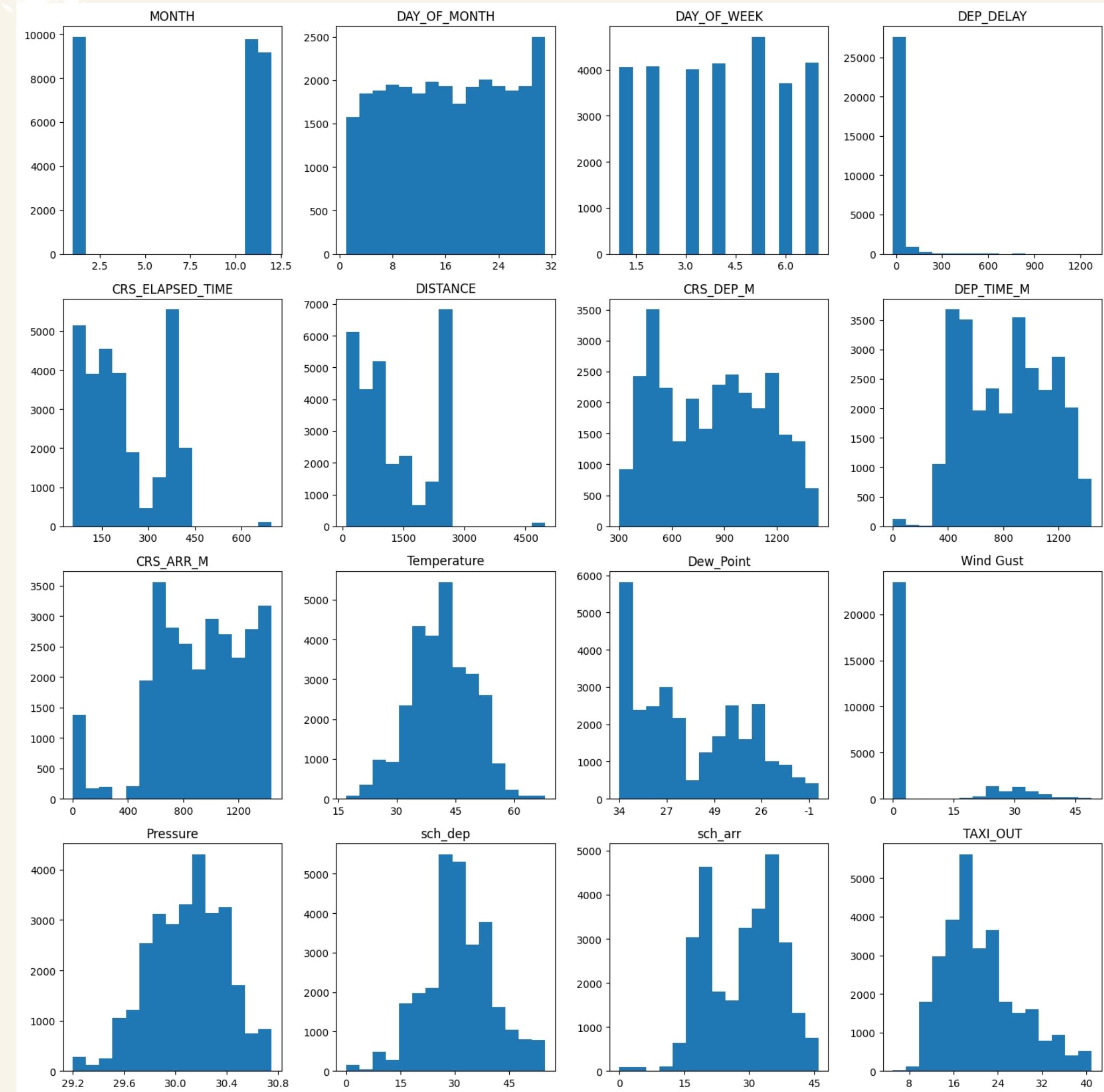


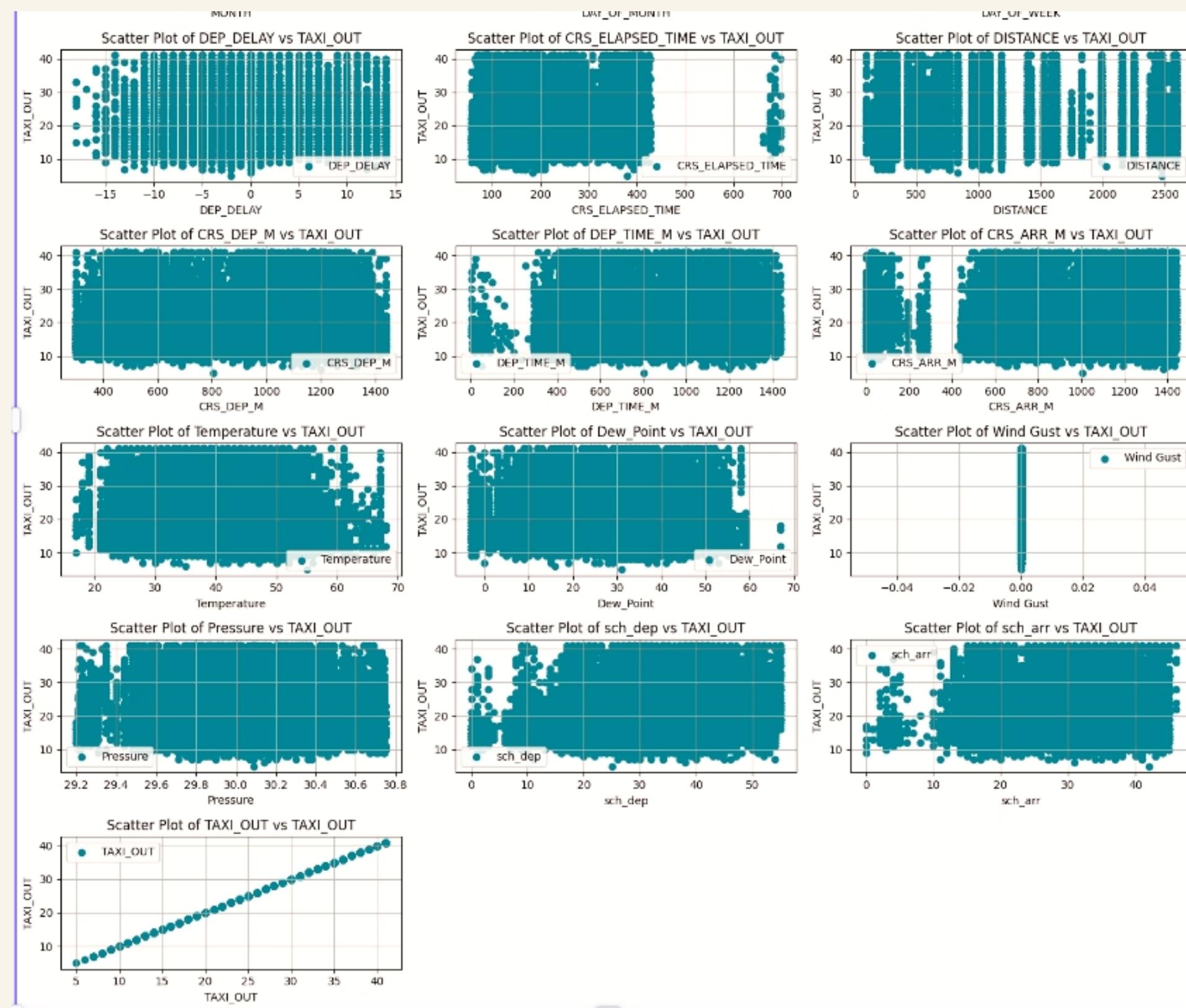
EXTREME OUTLIERS

**Distribution of Temperature during Flights**

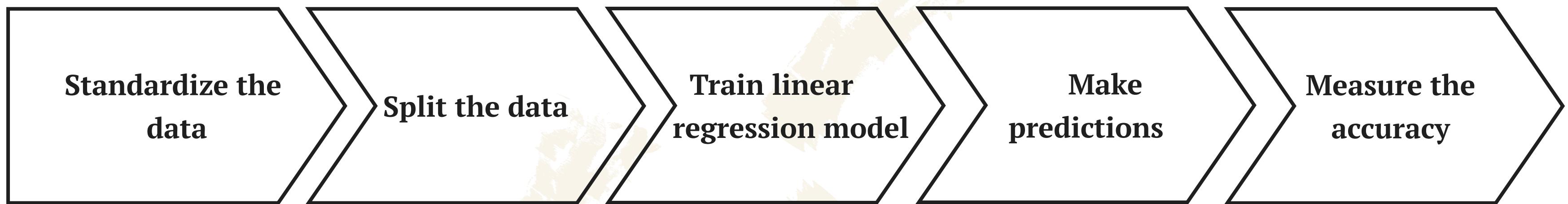


LESS EXTREME OUTLIERS





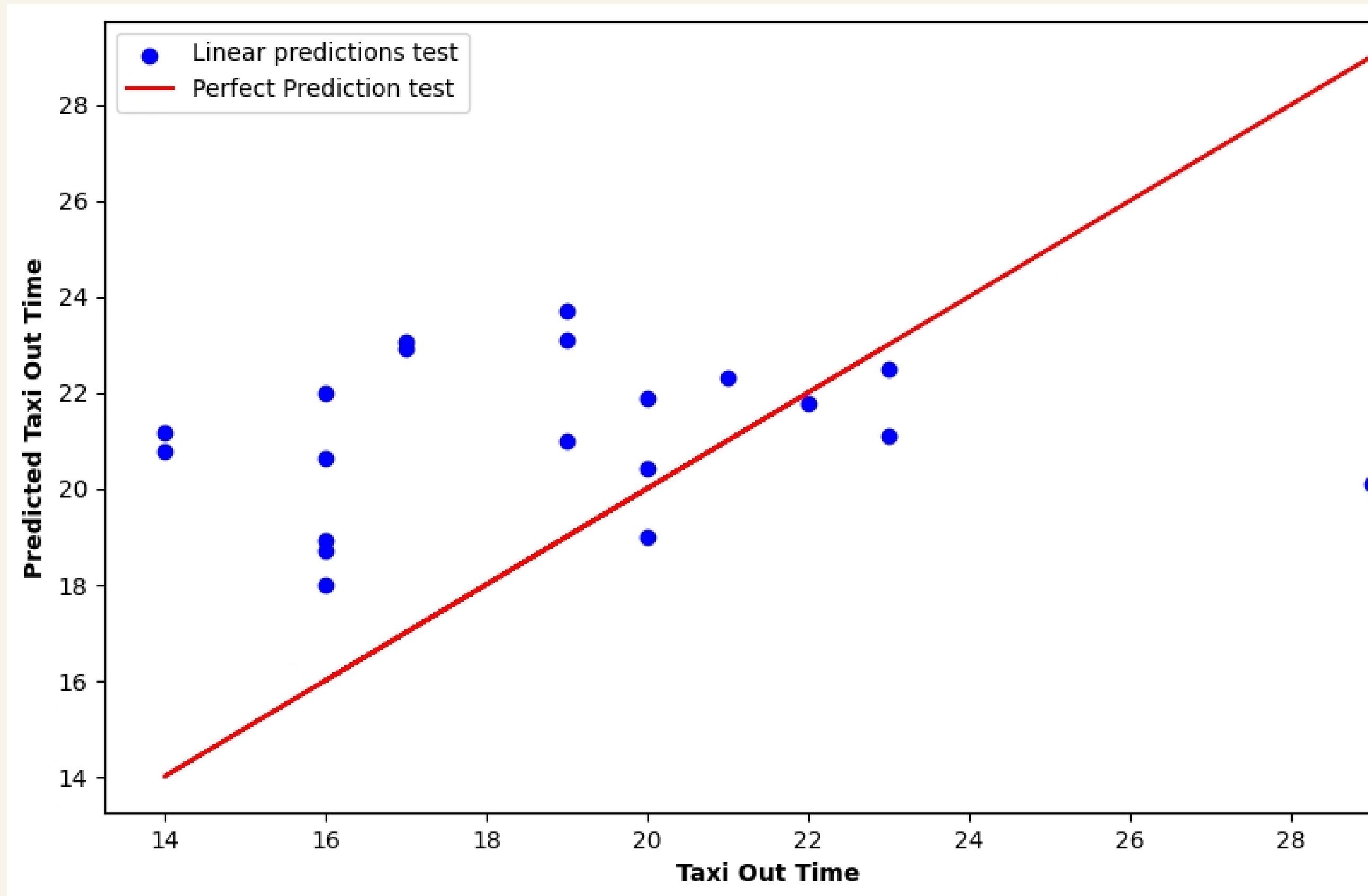
# ML process



# Evaluation

```
Mean Absolute Error (MAE): 3.556657585755454  
Root Mean Squared Error (RMSE): 4.352998759363313  
R2 Score: -0.5125602234299373  
Mean Squared Error (MSE): 18.94859819901854
```

```
Mean Absolute Error (MAE) for training data: 5.285506127317297  
Root Mean Squared Error (RMSE) for training data: 6.624633088176082  
R2 Score for training data: 0.06562821316110279  
Mean Squared Error (MSE) for training data: 43.88576355295737
```



# Pitch

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