

# Project 1

## Data Collections

Data collected is from Flights from the month of March from Houston to Seattle. Data was scraped from the website Kayak using selenium and a chrome driver. The dependent variable collected was the flight **price** and the independent variables are the airline's name, departure time, departure meridiem, date and weekday. Data is collected into a pandas Data frame to write it to the csv file.

## Organize Data

Slitting of the data is performed by accessing random data rows of the original csv and adding them to the training csv set first and the rest to the test set csv.

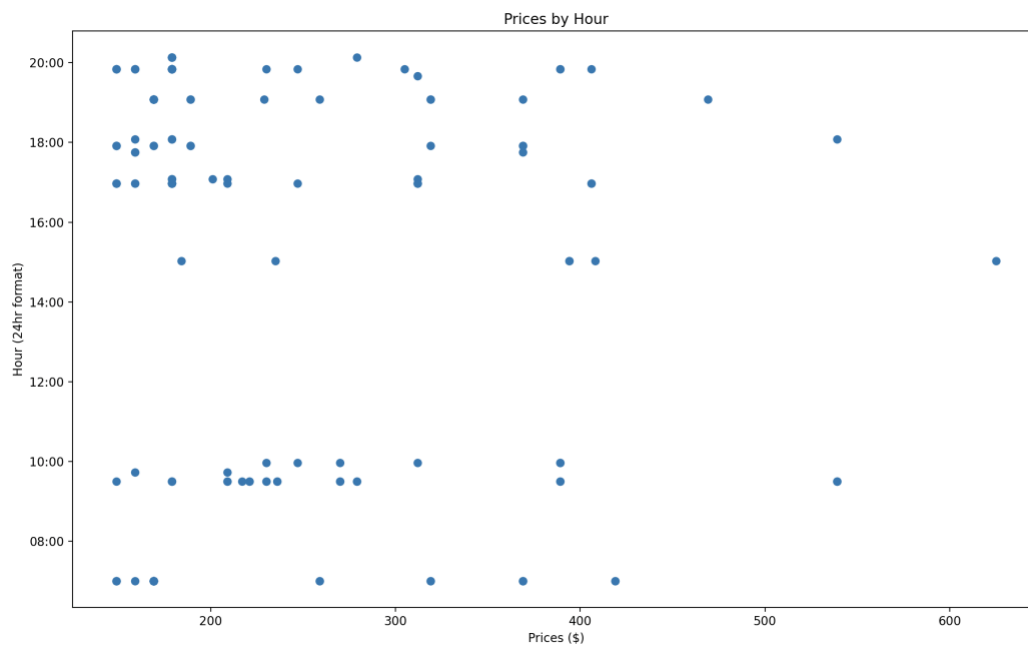
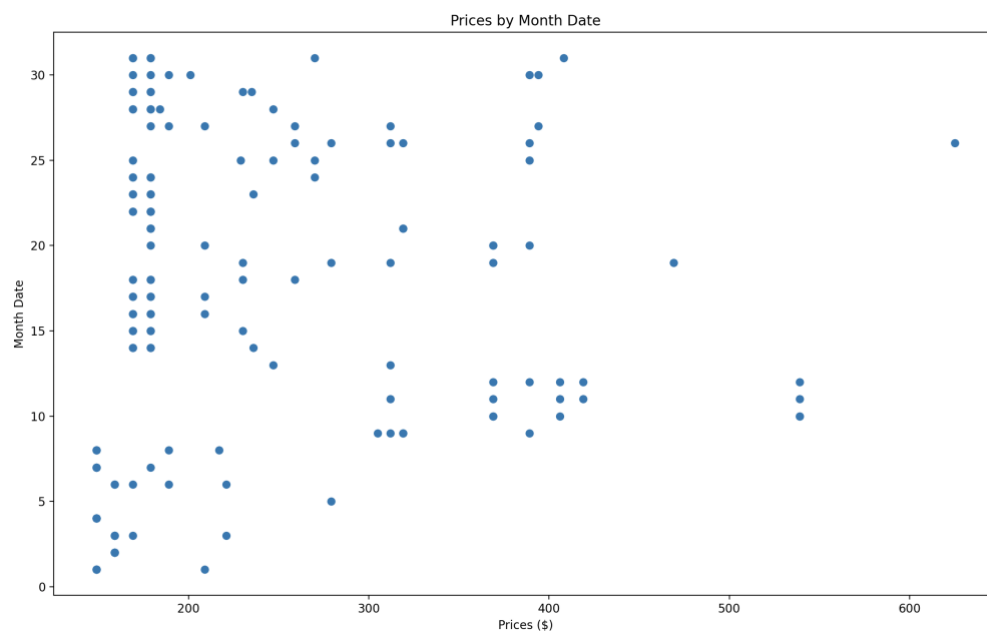
The command line should as follow:

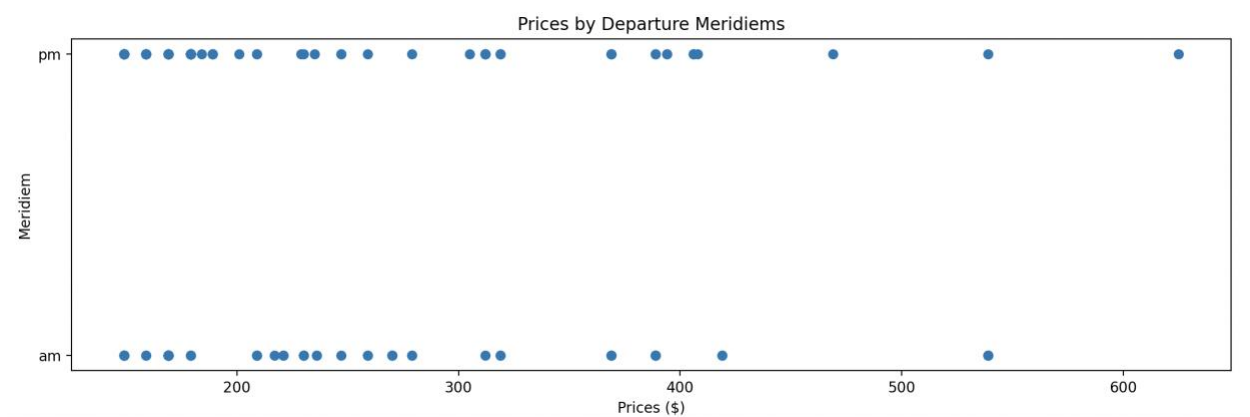
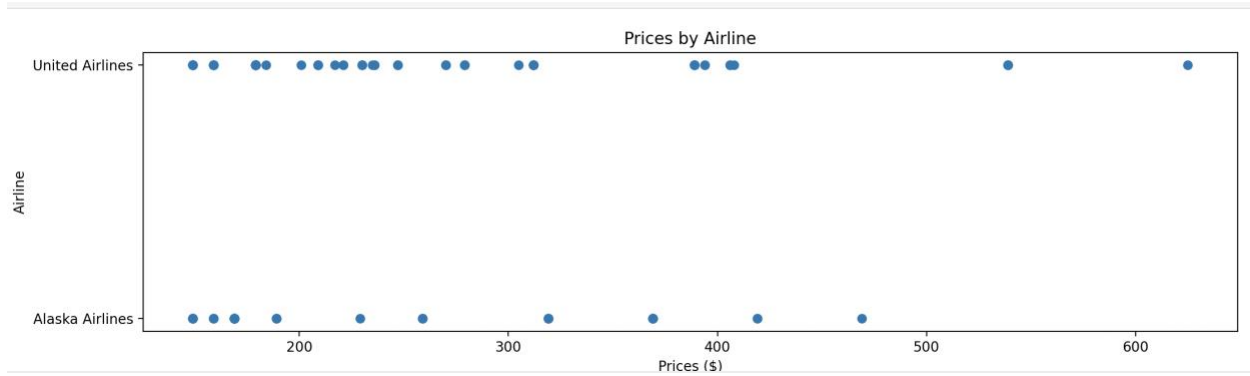
```
✓ TERMINAL  
> python3 csv_splitter.py  
Input File Name of Dataset to Split: ../CSVFiles/FligthsData.csv  
Input Percentage for Training Set: 80  
  
Total Data: 154 rows  
Training DataSet: 80% [123 rows] at ../CSVFiles/TrainingData.csv  
Test DataSet: 20% [31 rows] at ../CSVFiles/TestData.csv
```

## Data Plotting

Plotting of each independent variable with the dependent variable (flight price):







## Linear Regression



## Acknowledgments

- [Selenium Locating Elements](#)
- [Append pandas DataFrame to existing csv file](#)
- [pandas.DataFrame.to\\_csv](#)
- [Linear Regression](#)
- [Scraping Prices from Kayak](#)
- [Plotting timestamps \(hour/minute/seconds\) with Matplotlib](#)
- [sklearn.linear\\_model.LinearRegression](#)