Flight Price Prediction

Dataset

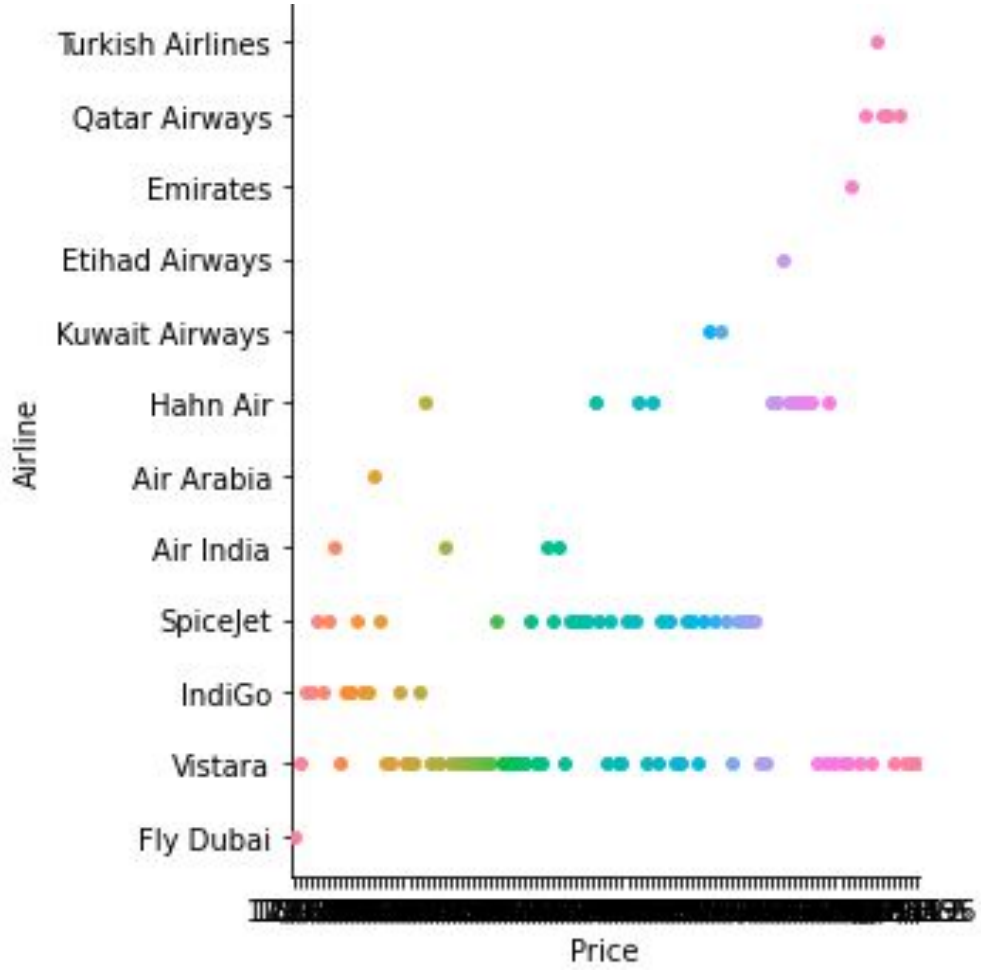
Dataset are not given, data are obtaining using web scraping method.

Through online website data getting.

Univarient Analysis

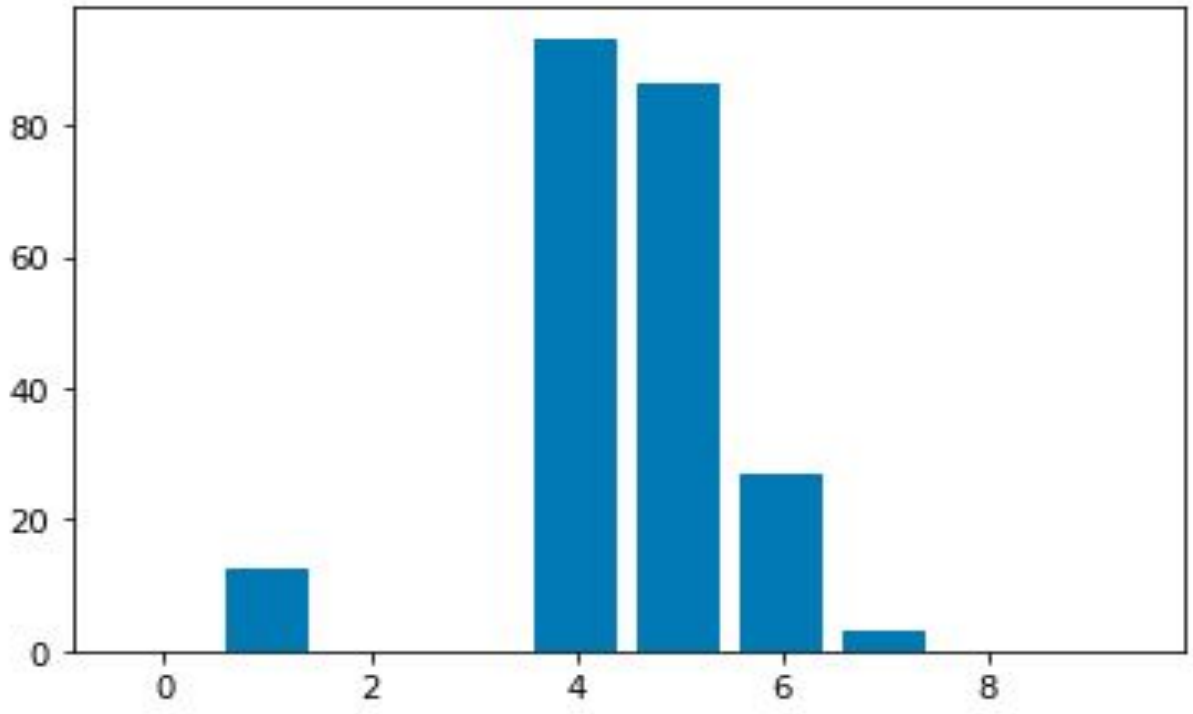
The Flight ticket prices increase or decrease every now and then depending on various factors like timing of the flights, destination, duration of flights. In the proposed system a predictive model will be created by applying machine learning algorithms to the collected historical data of flights. Optimal timing for airline ticket purchasing

Pricing in the airline industry is often compared to a brain game between carriers and passengers where each party pursues the best rates. Carriers love selling tickets at the highest price possible — while still not losing consumers to competitors. Passengers are crazy about buying flights at the lowest cost available — while not missing the chance to get on board. All this makes flight prices fluctuant and hard to predict. But nothing is impossible for people armed with intellect and algorithms.


Turkish Airlines
Qatar Airways
Emirates
Etihad Airways
Kuwait Airways
Hahn Air
Air Arabia
Air India
SpiceJet
IndiGo
Vistara
Fly Dubai
Airline
Price

Analysis on the basis various factors

A lot of factors that affect the overall price of airline tickets, including the airline, the date of travel, source, destination, route, duration, and so on. Each provider seems to have its own unique set regulations and methods for determining pricing. Recent breakthroughs in Artificial Intelligence (AI) and Machine Learning (ML) allow for the inference of such principles as well as the modelling of price volatility. This article is a study conducted on predicting flight prices. Utilizing two datasets for testing and training, this study analyses various machine learning methods for predicting flight prices.


80
60
40
20
0
0
2
4
6
8

Data Preprocessing can be done using various mathematical operations By replacing all number to numb, times into hour and minute each, differe all source and destination using encoding method.

Different method used for Identified Approaches.

ExtraTreesClassifier

LinearRegression

RandomForestRegressor

metrics

HyperParameterTuning

Conclusion

Result through accuracy of different models.

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