Flight Booking Price Prediction

Objective -

The objective is to analyze the flight booking dataset obtained from a platform which is used to book flight tickets.

A thorough study of the data will aid in the discovery of valuable insights that will be of enormous value to passengers.

Apply EDA, statistical methods and Machine learning algorithms in order to get meaningful information from it.

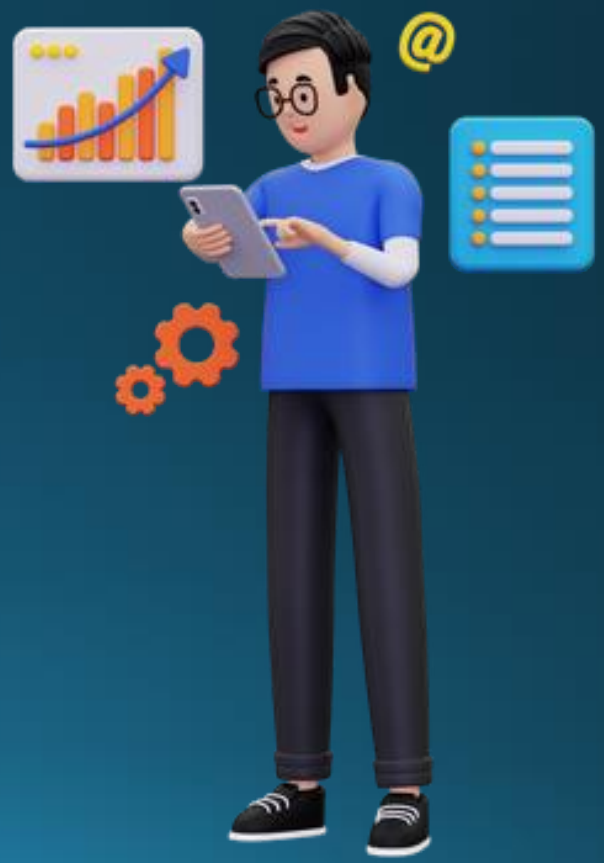
Data Analysis and Insights -

- After importing the dataset and performing extensive exploratory data analysis (EDA), several key insights were discovered:

- **Airline Variation in Prices -**
  There is significant variation in ticket prices among different airlines.

- **Ticket Price and Days to Departure -**
  Ticket prices increase as the departure date approaches.

- **Costliest and Cheapest Airlines -**
  Vistara is the costliest airline, while AirAsia is the cheapest.



- **Business Class Prices -**
  Vistara and Air India have the most expensive business class tickets .

- **Flight Frequency by Airline -**
  Vistara has the most flights, while Spicejet has the least.

- **Destination City Frequency -**
  Mumbai is the most frequent destination city, whereas Chennai is the least .

- **Departure Times -**
  Most flights depart in the morning, with the least number of departures occurring late at night.

- **Number of Stops:-**
  The majority of flights have only one stop, with two or more stops being less common.
  Travel Class: Most passengers book or travel in economy class

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Conclusion -

This insights about project successfully analyzed the flight booking dataset to uncover valuable flight prices, airline variations, and passenger preferences.

The findings from this project can be utilized to provide passengers with valuable information about flight pricing trends, helping them make more informed decisions when booking flights. Additionally, the predictive model can be used by the booking platform to offer personalized recommendations and price alerts to customers, enhancing their overall booking experience.