

FLIGHT TICKET Dataset Project EDA Report



1. UNDERSTANDING THE GIVEN TASK

Task Given by instructor Atharva Kulkarni

Performed By PRASHANT B. AGHAO

- Solve in ipynb:
 1. Import the dataset. [flight.ipynb]\flight_price_1.csv
 2. Do proper EDA(analysis) of your dataset and create a report
 3. Then perform necessary preprocessing steps

+ Code

+ Markdown

2. DATA COLLECTION AND UNDERSTANDING

- I used a dataset on **FLIGHT TICKET PRICE** from UCI.

2.1 Objectives Clearly state the goals of the exploratory data analysis, such as identifying patterns, trends, and anomalies in the flight ticket data.

Empty markdown cell, double-click or press enter to edit.

3. DATA EXPLORATION

- In this step, we will apply Exploratory Data Analysis (EDA) to extract insights from the data set to know which features have contributed more in predicting Forest fire by performing Data Analysis using Pandas and Data visualization using Matplotlib & Seaborn. It is always a good practice to understand the data first and try to gather as many insights from it.

Below are tasks to be performed in EDA:

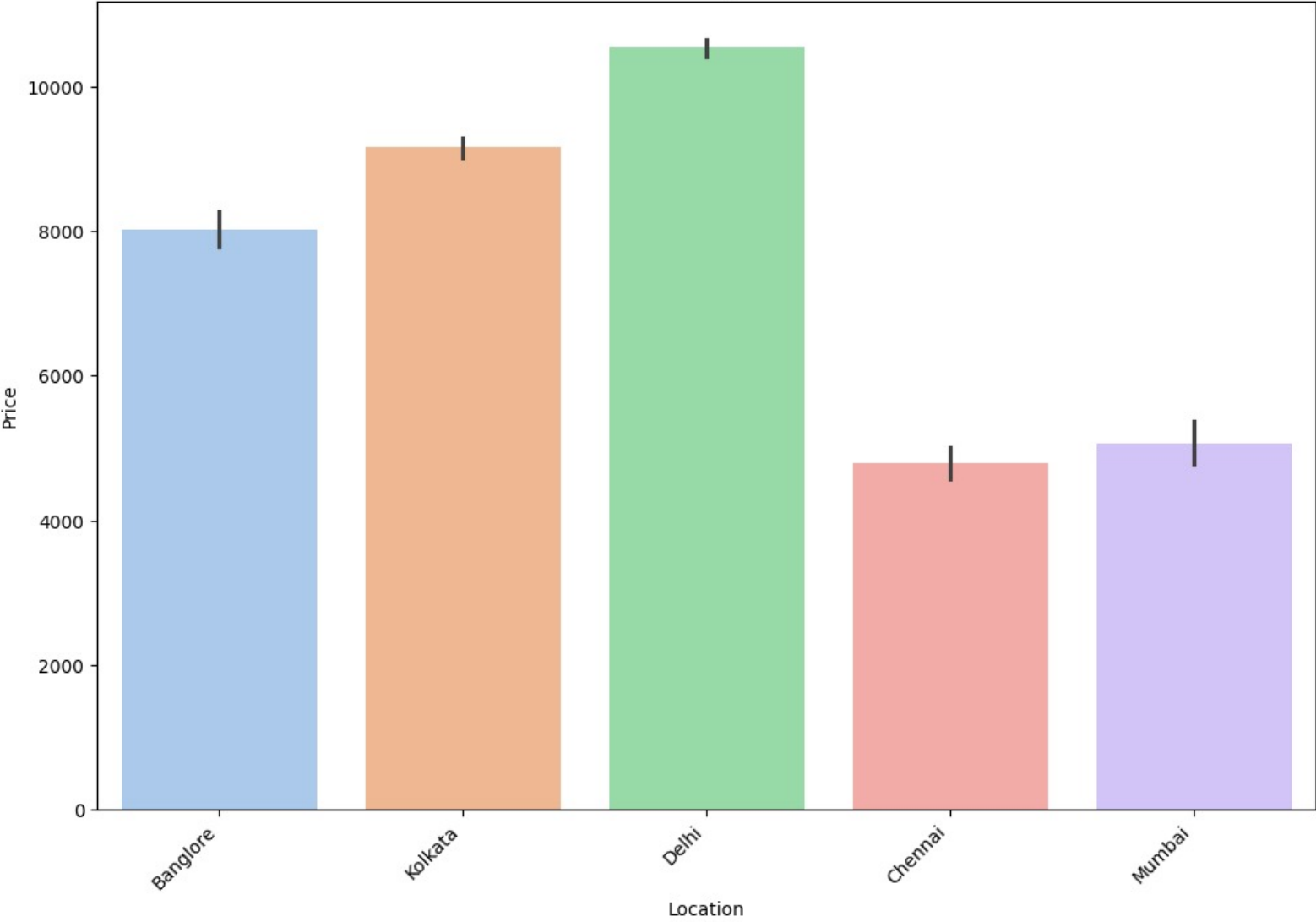
1. **Importing Libraries**
2. **Data Cleaning for EDA Report**
3. **Exploratory Data Analysis (EDA) on all Features**

	Airline	Date_of_Journey	Source	Destination	Route	Dep_Time	Arrival_Time	Duration	Total_Stops	Additional_Info	Price
0	IndiGo	24/03/2019	Banglore	New Delhi	BLR → DEL	22:20	01:10 22 Mar	2h 50m	non-stop	No info	3897
1	Air India	1/05/2019	Kolkata	Banglore	CCU → IXR → BBI → BLR	05:50	13:15	7h 25m	2 stops	No info	7662
2	Jet Airways	9/06/2019	Delhi	Cochin	DEL → LKO → BOM → COK	09:25	04:25 10 Jun	19h	2 stops	No info	13882
3	IndiGo	12/05/2019	Kolkata	Banglore	CCU → NAG → BLR	18:05	23:30	5h 25m	1 stop	No info	6218
4	IndiGo	01/03/2019	Banglore	New Delhi	BLR → NAG → DEL	16:50	21:35	4h 45m	1 stop	No info	13302

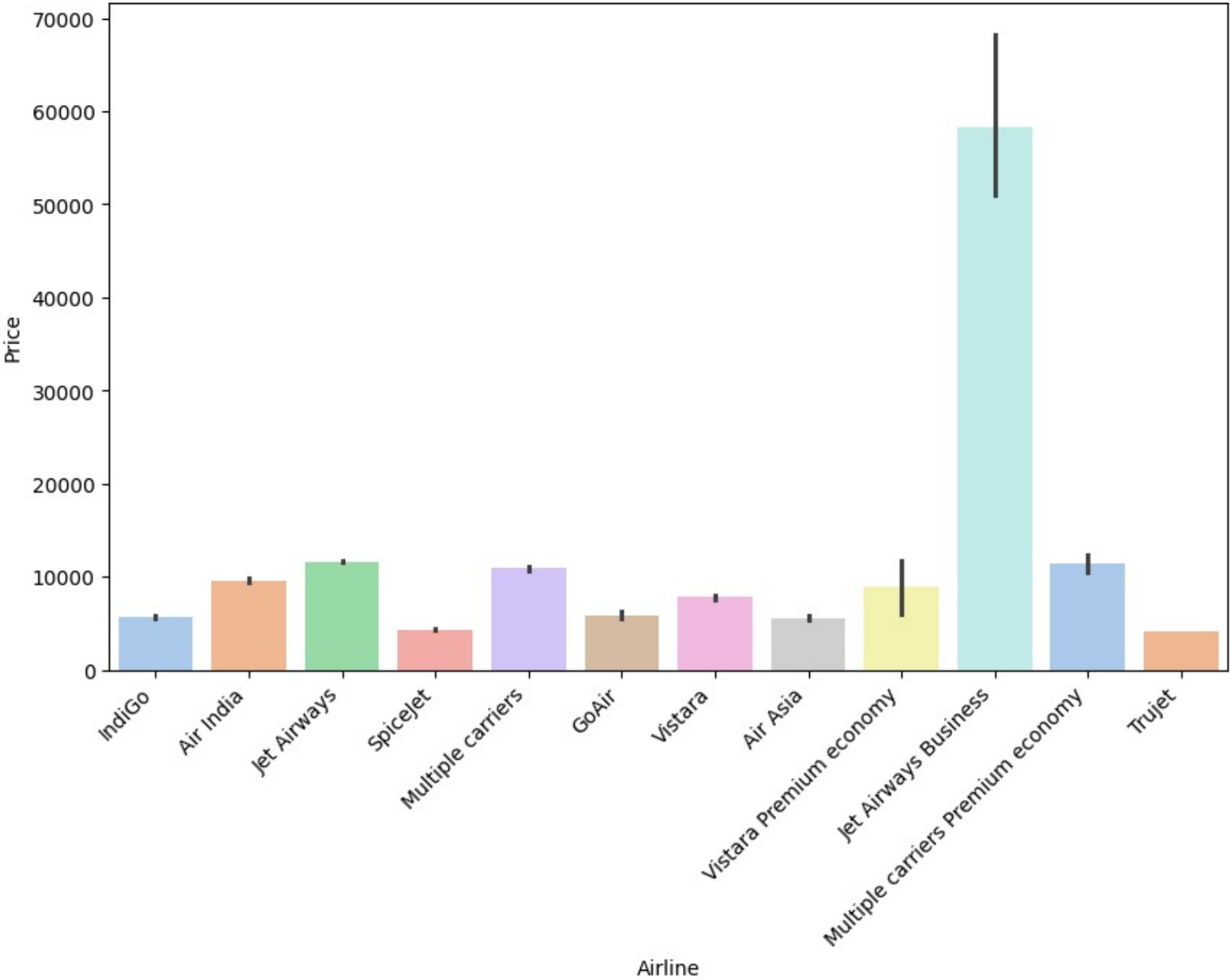
```
# Overview of the dataset
print("\nDataset Overview:")
print(df.info())
```

```
Dataset Overview:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10683 entries, 0 to 10682
Data columns (total 11 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Airline                10683 non-null  object
1   Date_of_Journey        10683 non-null  object
2   Source                 10683 non-null  object
3   Destination            10683 non-null  object
4   Route                  10682 non-null  object
5   Dep_Time               10683 non-null  object
6   Arrival_Time           10683 non-null  object
7   Duration               10683 non-null  object
8   Total_Stops            10682 non-null  object
9   Additional_Info        10683 non-null  object
10  Price                  10683 non-null  int64
dtypes: int64(1), object(10)
```

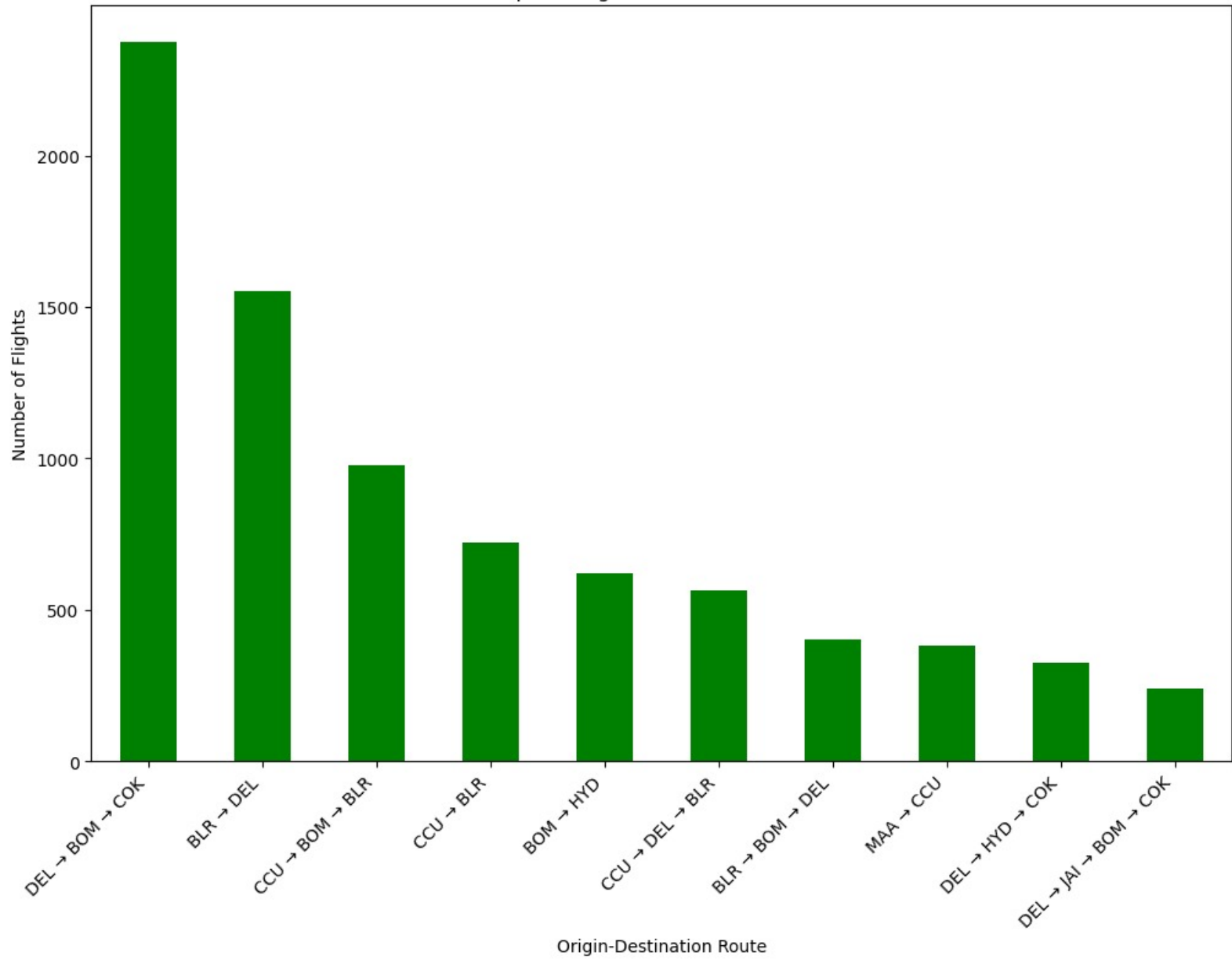
Ticket Prices by Location



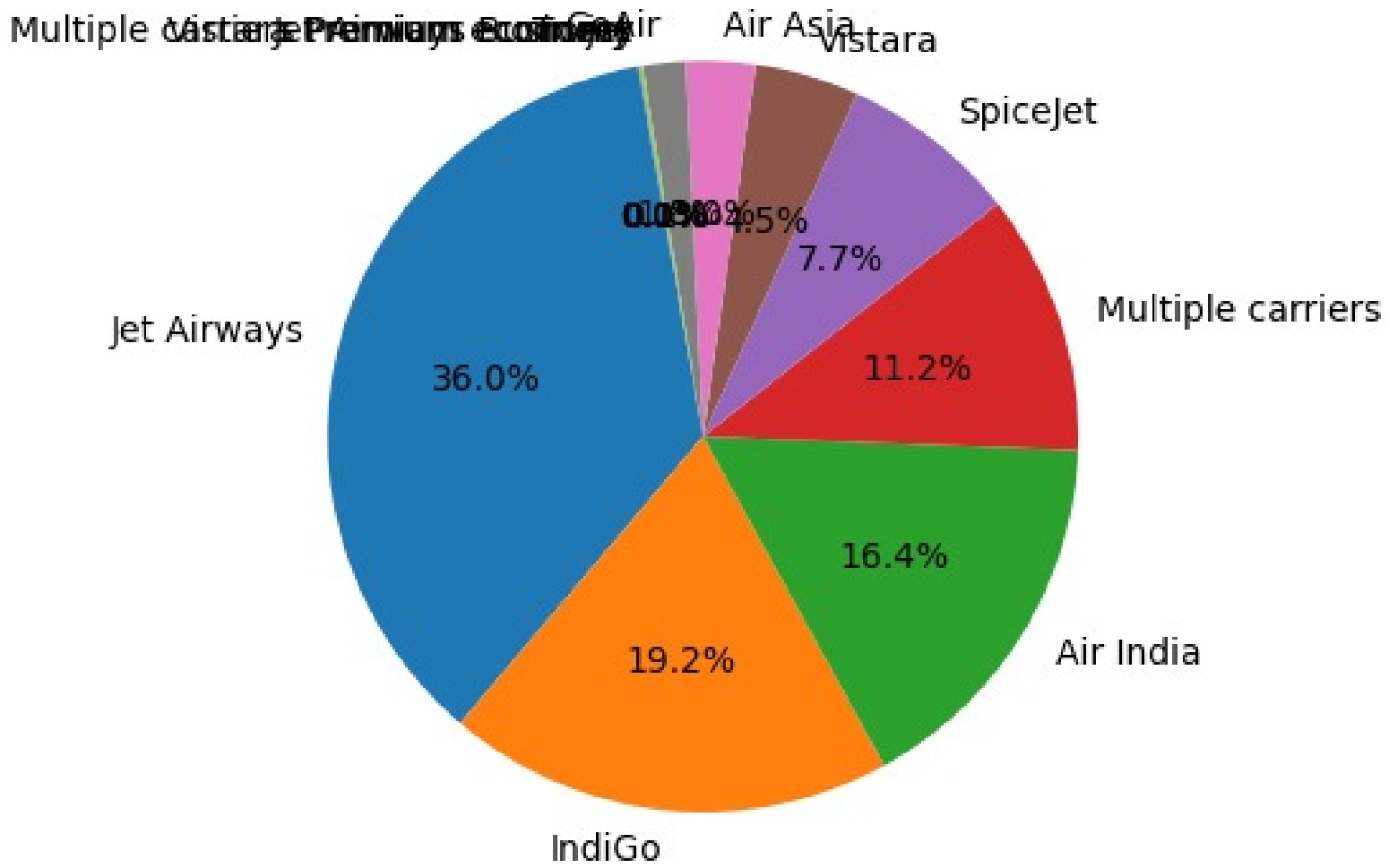
Ticket Prices by Airline



Top 10 Origin-Destination Routes



Airlines Distribution



T Code

T Markdown

REPORT

- JET AIRWAYS BUSINESS have highest ticket prizes.
- DELHI have most no of departure flight.
- JET AIRWAYS have most airlines distribution'
- Most flight fly between DELHI-COCHIN.