

# FLIGHT PRICE ANALYSIS



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# OUTLINE

- **Executive Summary**
- **Introduction**
- **Methodology**
- **Results & Visualization**
- **Discussion(Findings and Implication)**
- **Conclusion**

# EXECUTIVE SUMMARY

- **Flight price data analysis**
- **Identifying trends and insights across various parameters like duration, stops, airline, destination city, arrival time etc.**
- **Understanding which factors and categories contribute most to the flight prices enabling strategic assistance in decision making for passenger and airlines.**

# INTRODUCTION

## ❖ ABOUT:

**Analyzing Flight price data  
to understand price dynamic and  
trends.**

## ❖ OBJECTIVE:

- **Detailed analysis of flight price data.**
- **Identifying key trends and insights  
based on flight data variables.**

# METHODOLOGY

## ✓ Data collection Source:

[https://drive.google.com/file/d/1n9FqH3D1-nvviwvktEZeW4cgEPacGuRe/view?usp=drive\\_link](https://drive.google.com/file/d/1n9FqH3D1-nvviwvktEZeW4cgEPacGuRe/view?usp=drive_link)

## ✓ Data exploration

## ✓ Data cleaning:

- Handling missing values
- Removing duplicates
- Converting data types
- Removing outliers

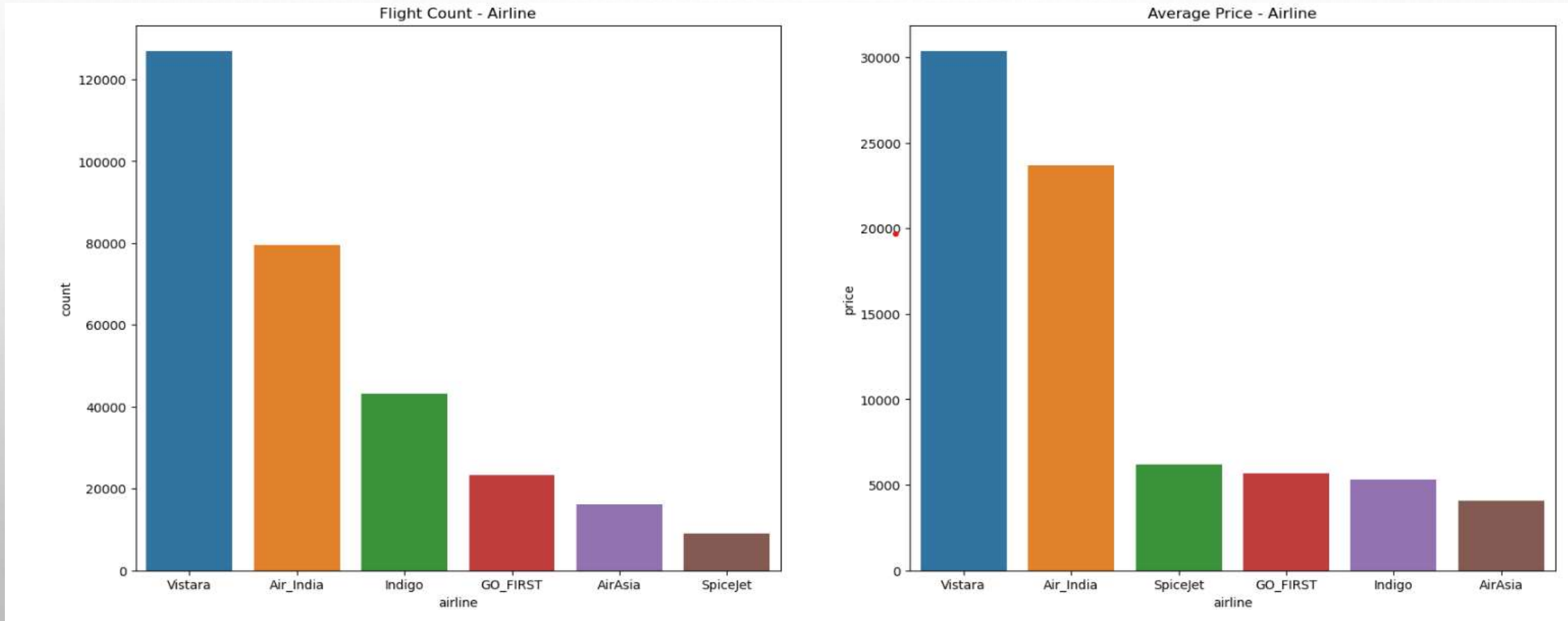
## ✓ Data visualization

## ✓ Data analysis and conclusion



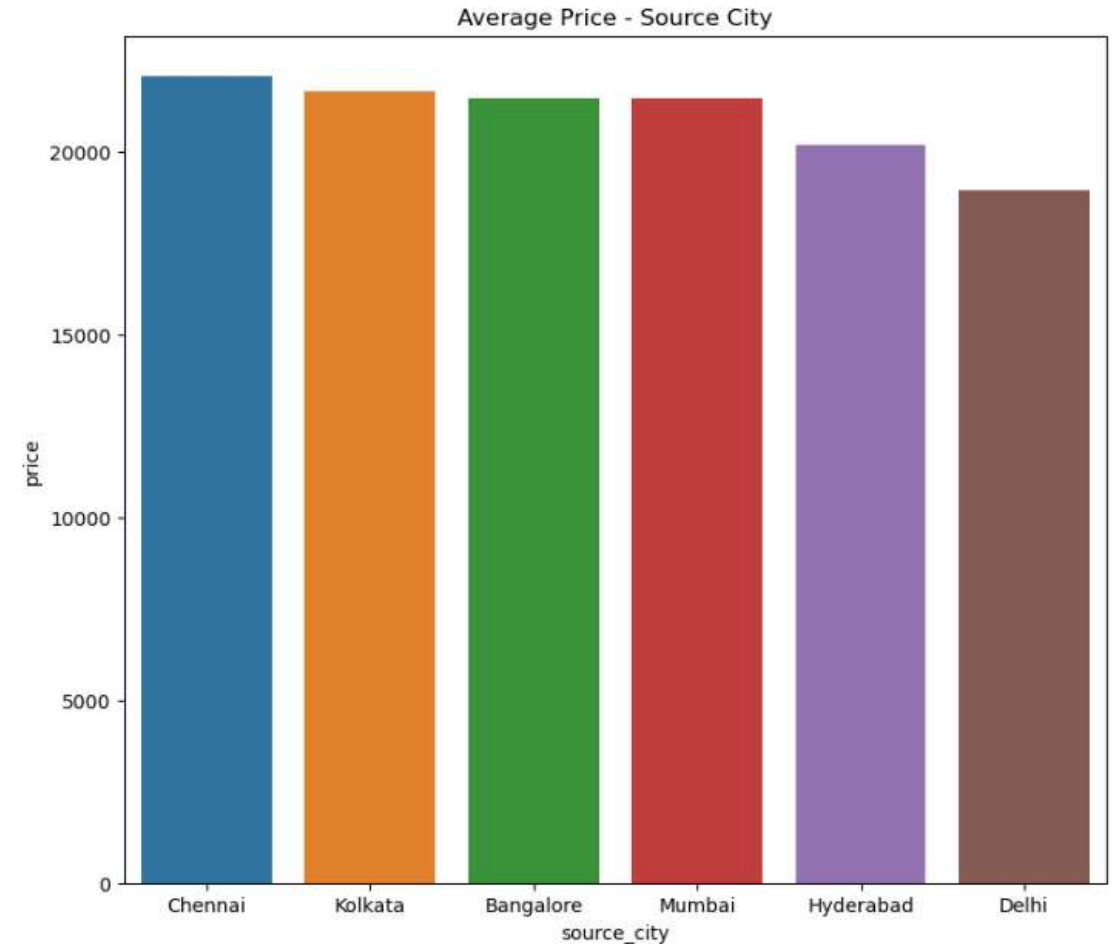
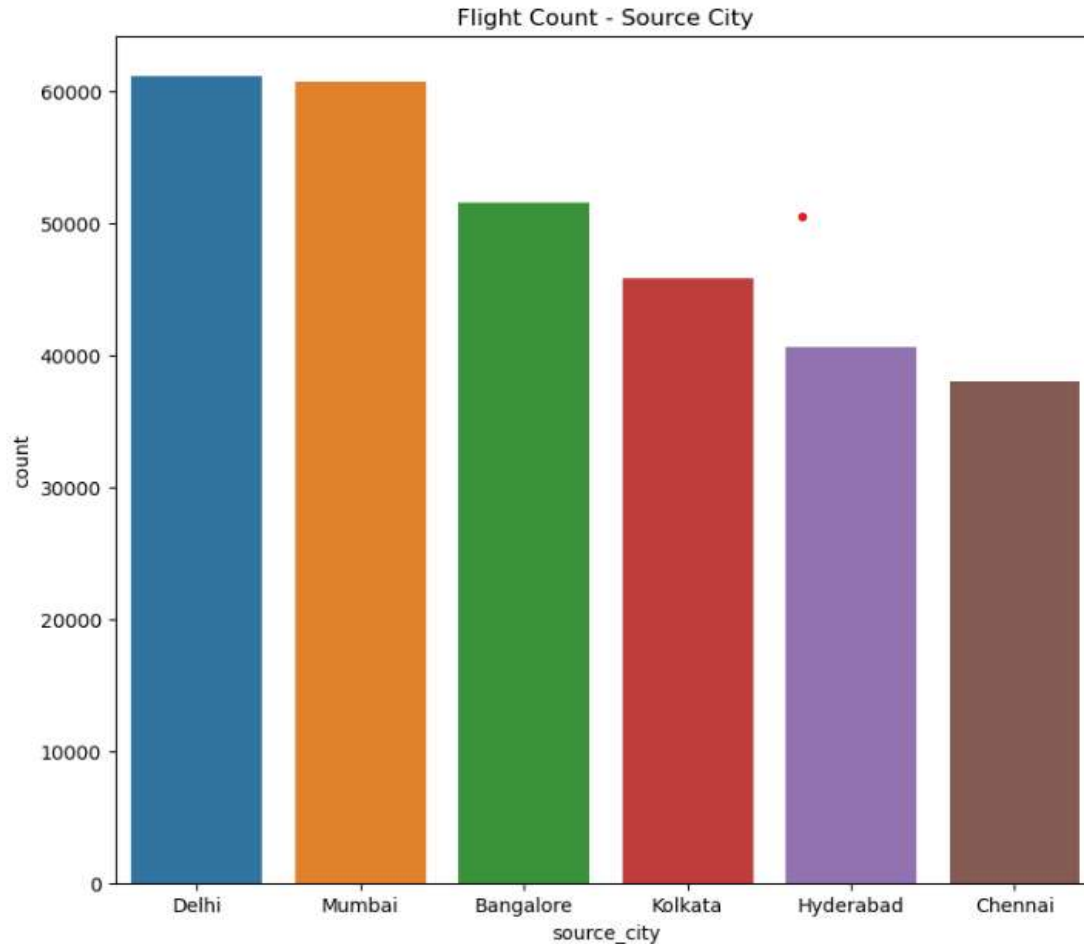
# RESULT(WITH VISUALIZATION)

## ➤ Airline Wise Analysis



**Conclusion** : Vistara airlines has most flights but has highest price tickets while AirAsia airlines have lowest price tickets but have less number of flights

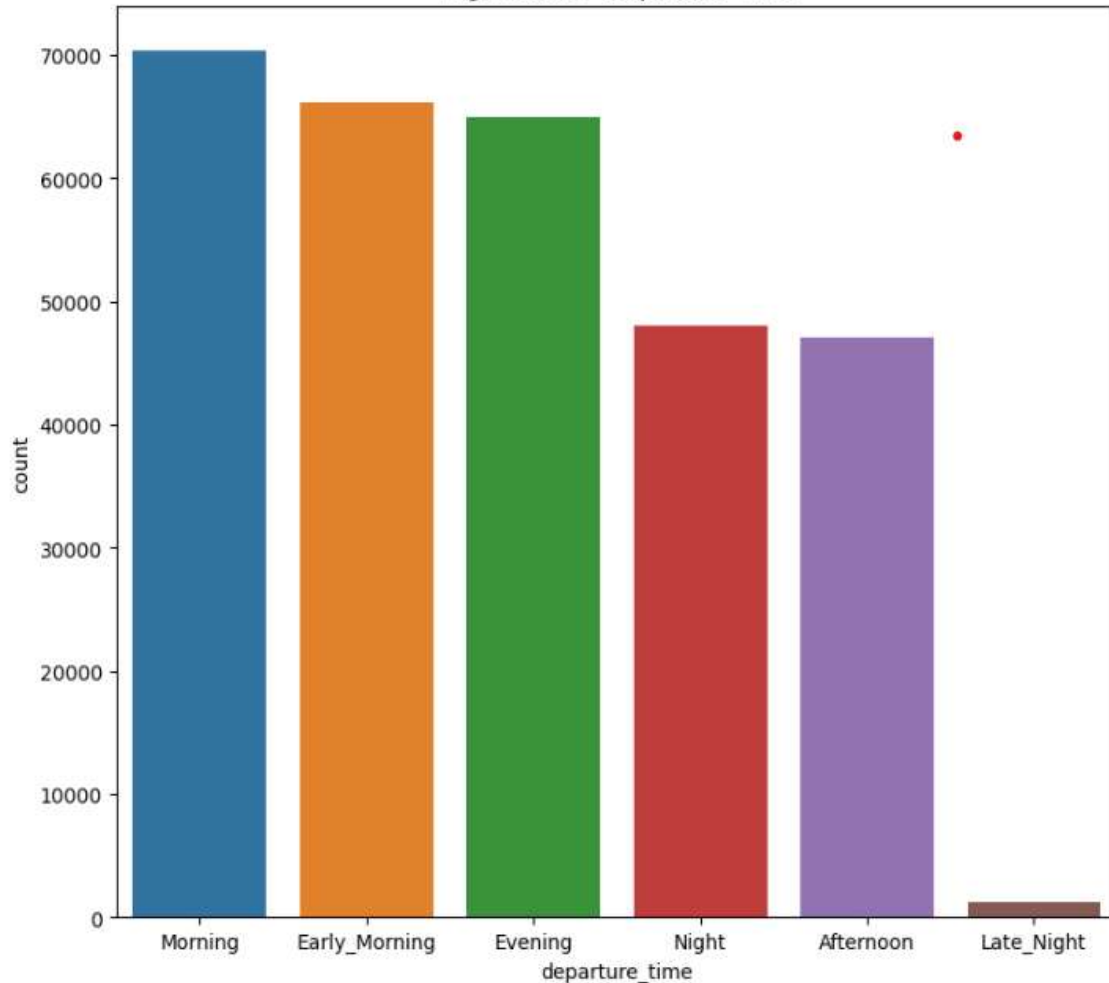
## ➤ Source city wise analysis



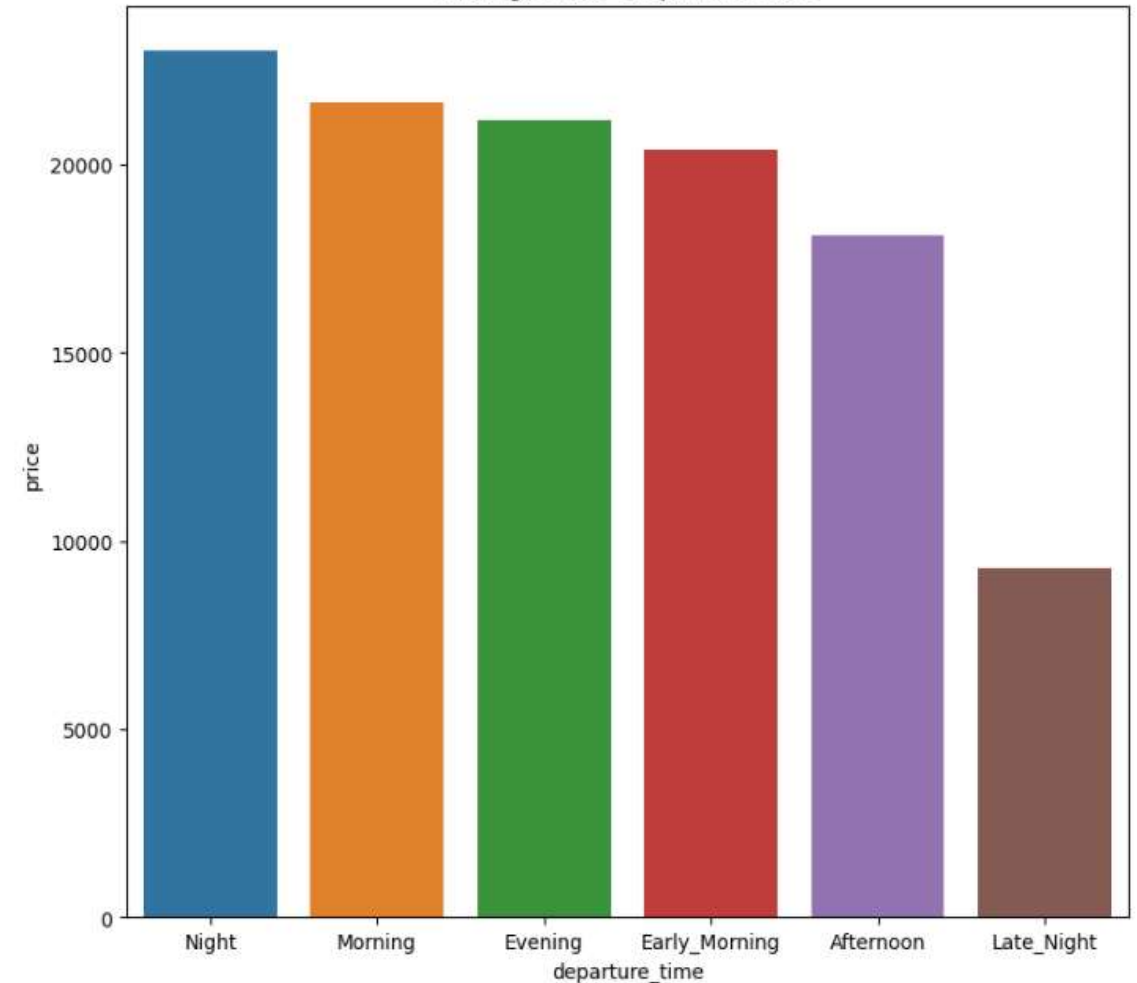
**Conclusion:** Delhi takes lead as the source city having highest number of flights while Chennai is the leading source city having highest average ticket price

## ➤ Departure time wise analysis

Flight Count - Departure Time



Average Price - Departure Time

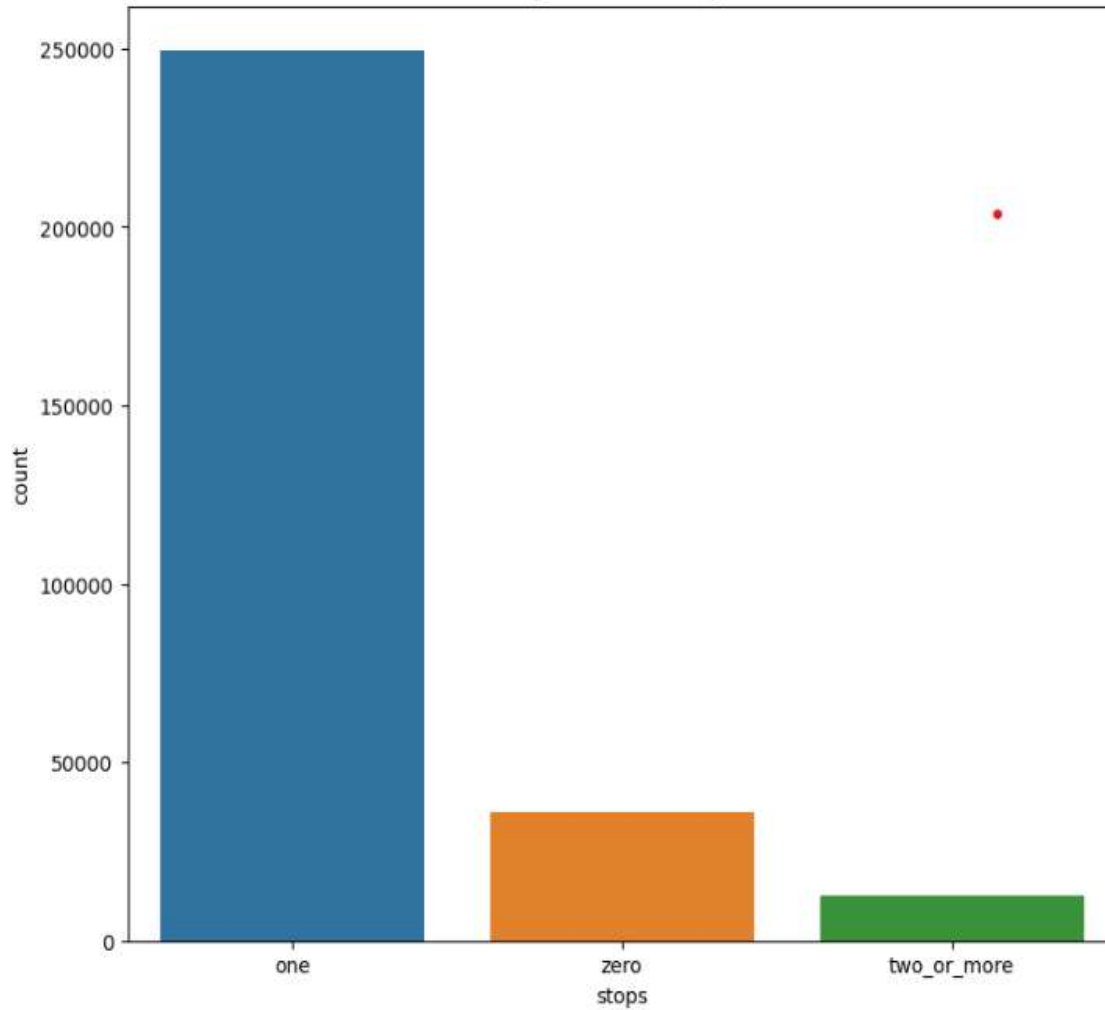


**Conclusion:** There are more number of flights which have departure time as morning while flights which have departure time as night have the highest average ticket price.

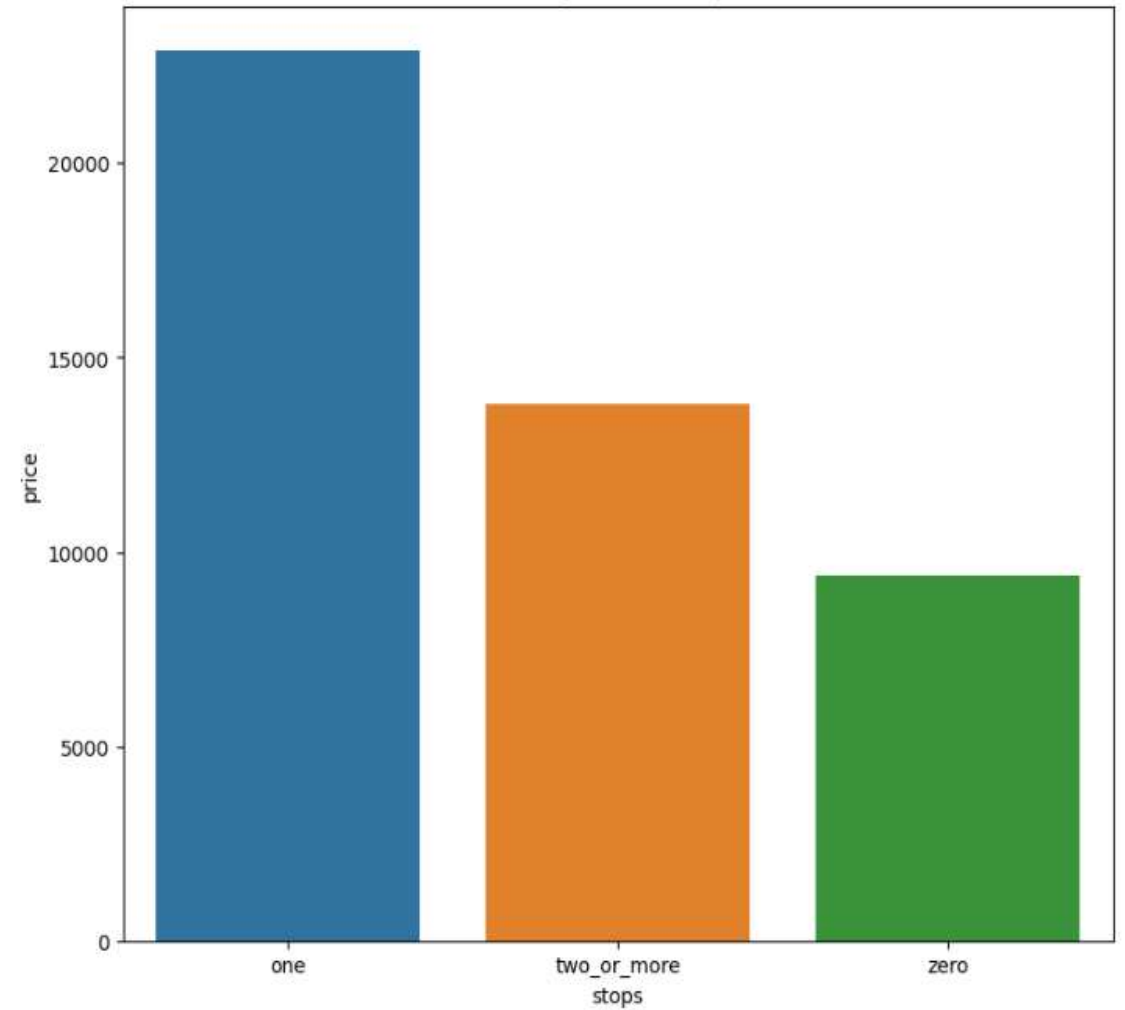


## ➤ Number of stops wise analysis

Flight Count - Stops



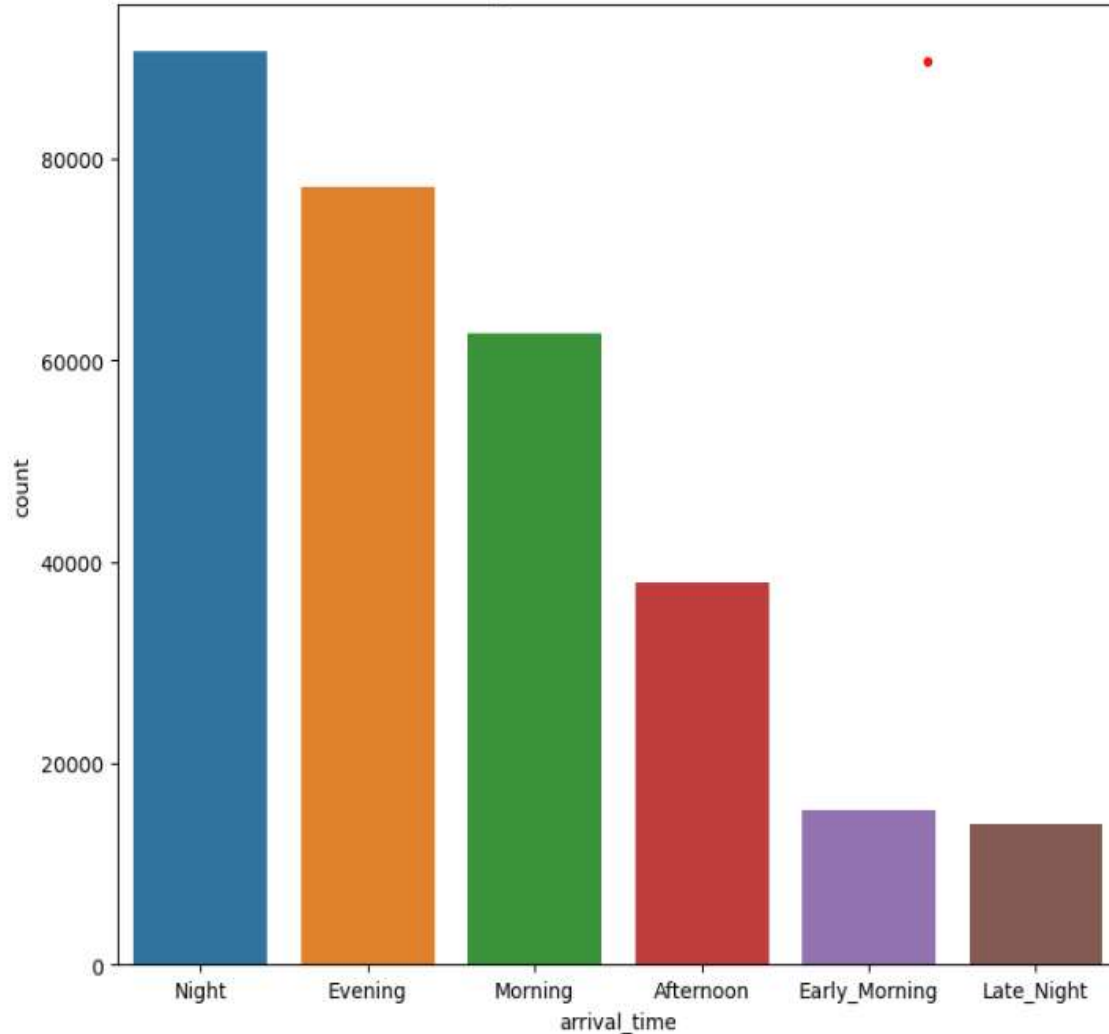
Average Price - Stops



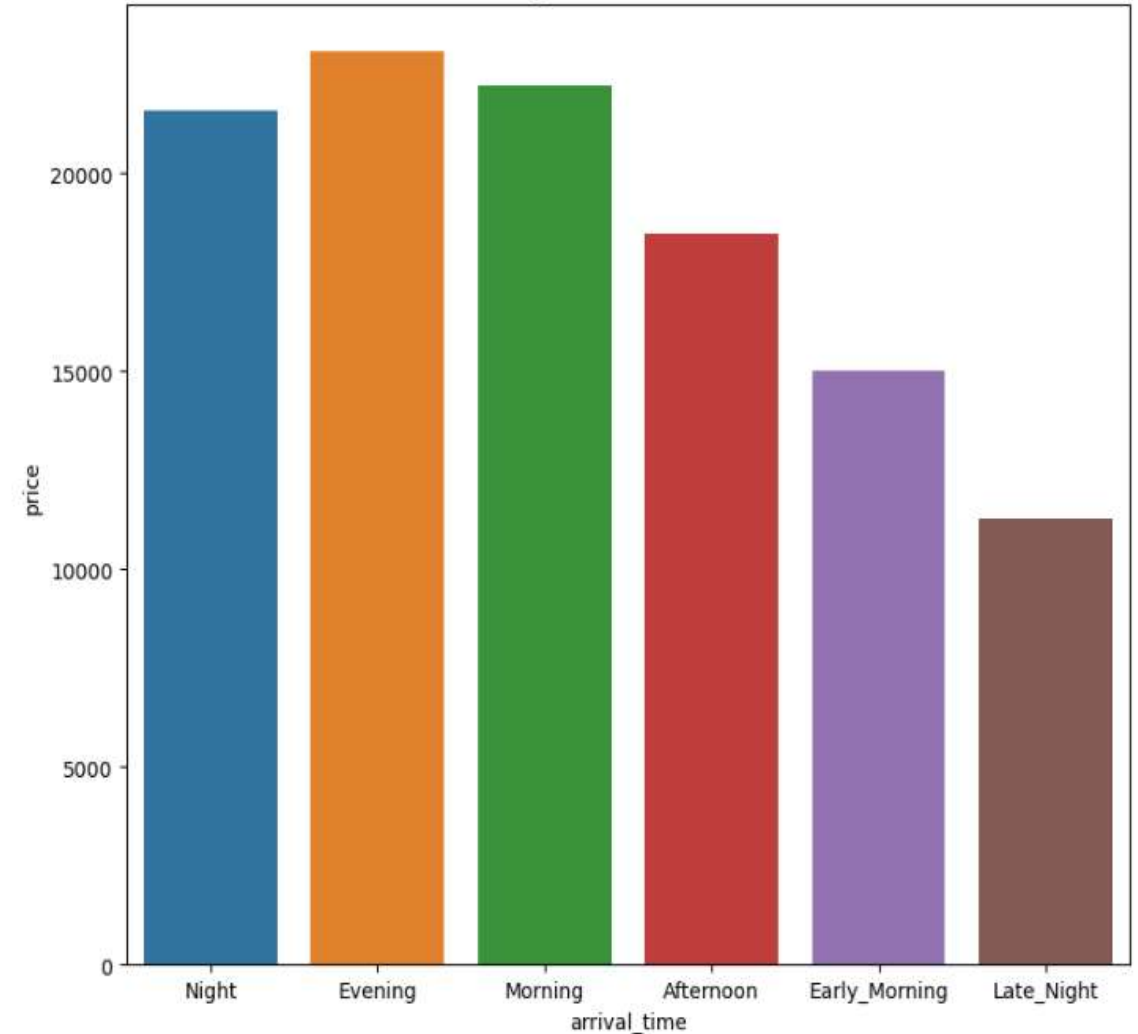
**Conclusion:** There are more number of flights which have only one stop and also they have the highest average ticket price.

## ➤ Arrival time wise analysis

Flight Count - Arrival Time



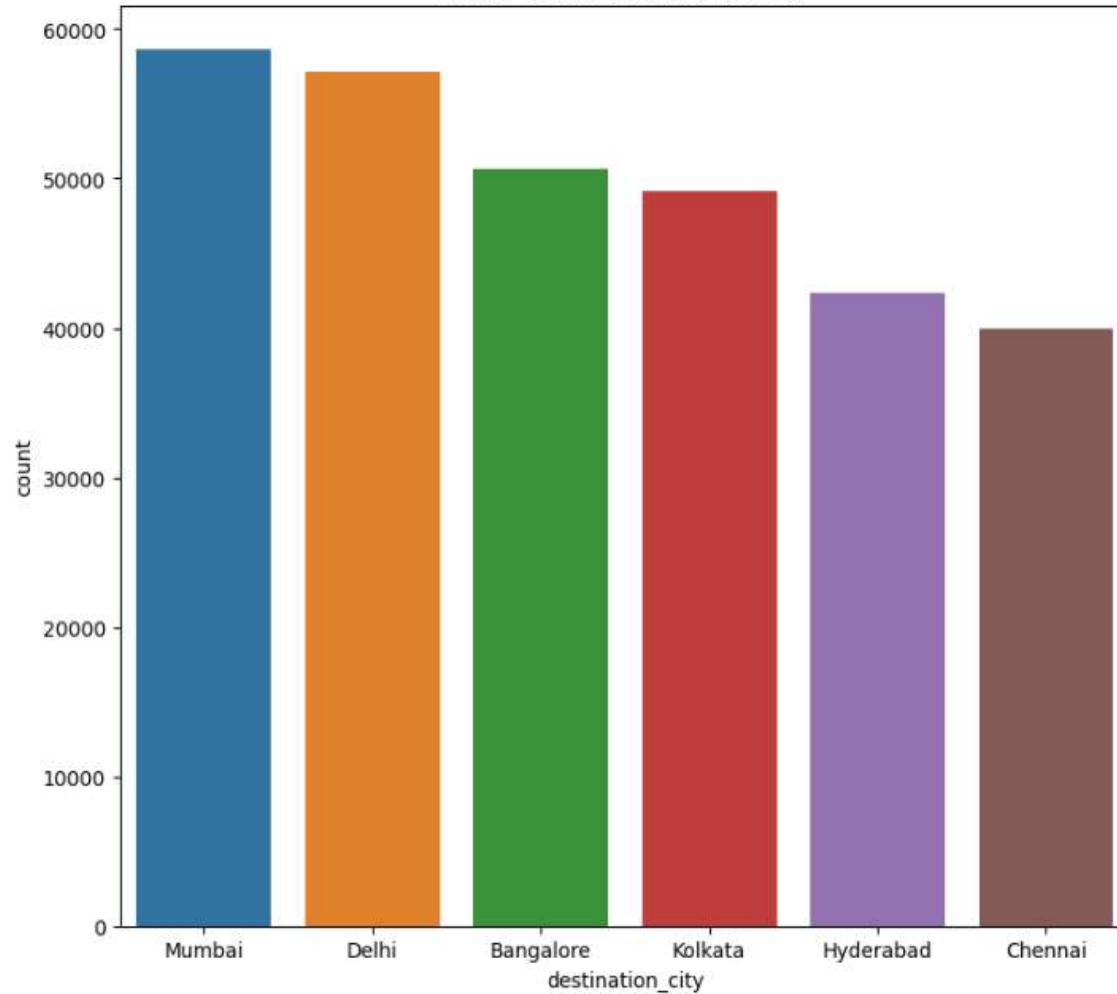
Average Price - Arrival Time



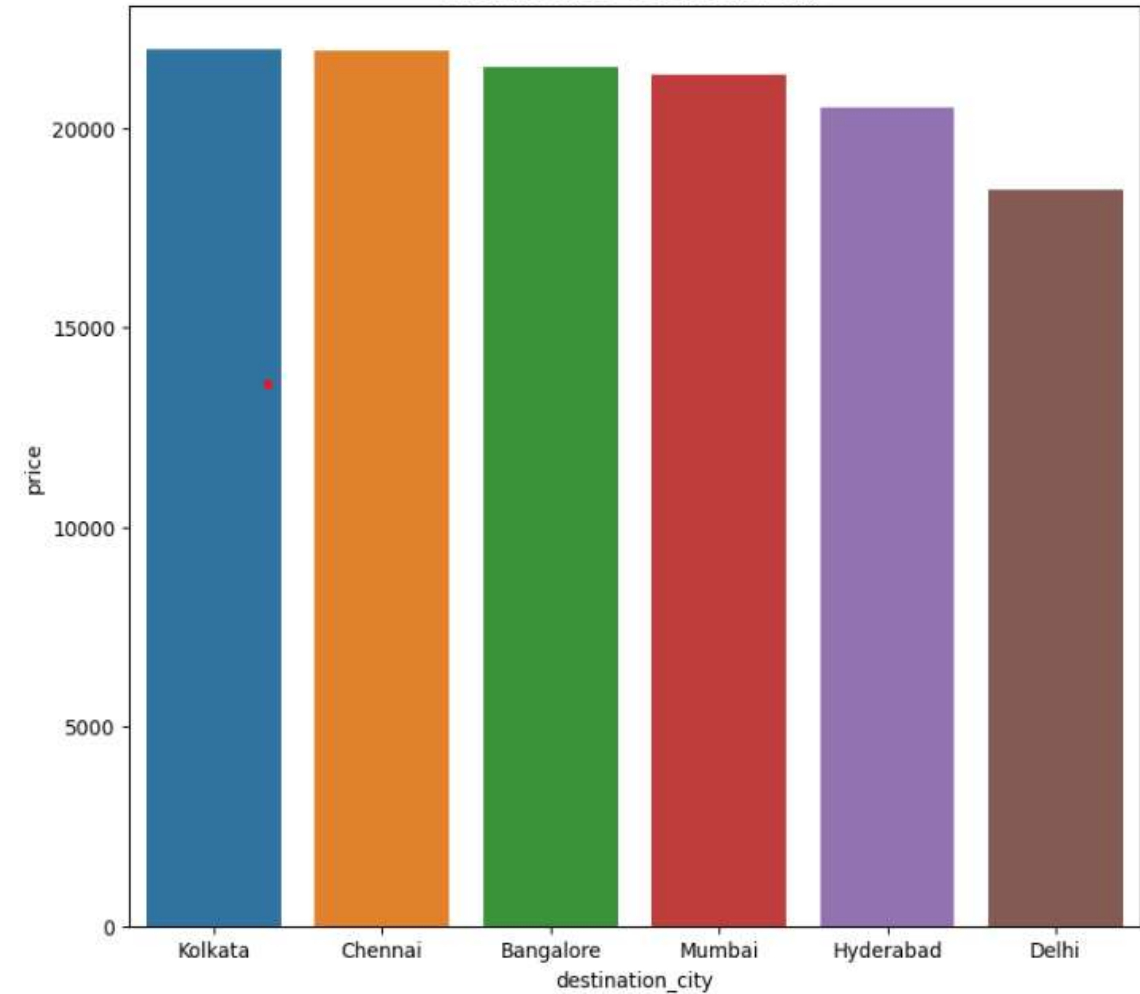
**Conclusion:** There are more number of flights which arrive at night while the flights which arrive at evening have the highest average ticket price.

## ➤ Destination wise analysis

Flight Count - Destination City

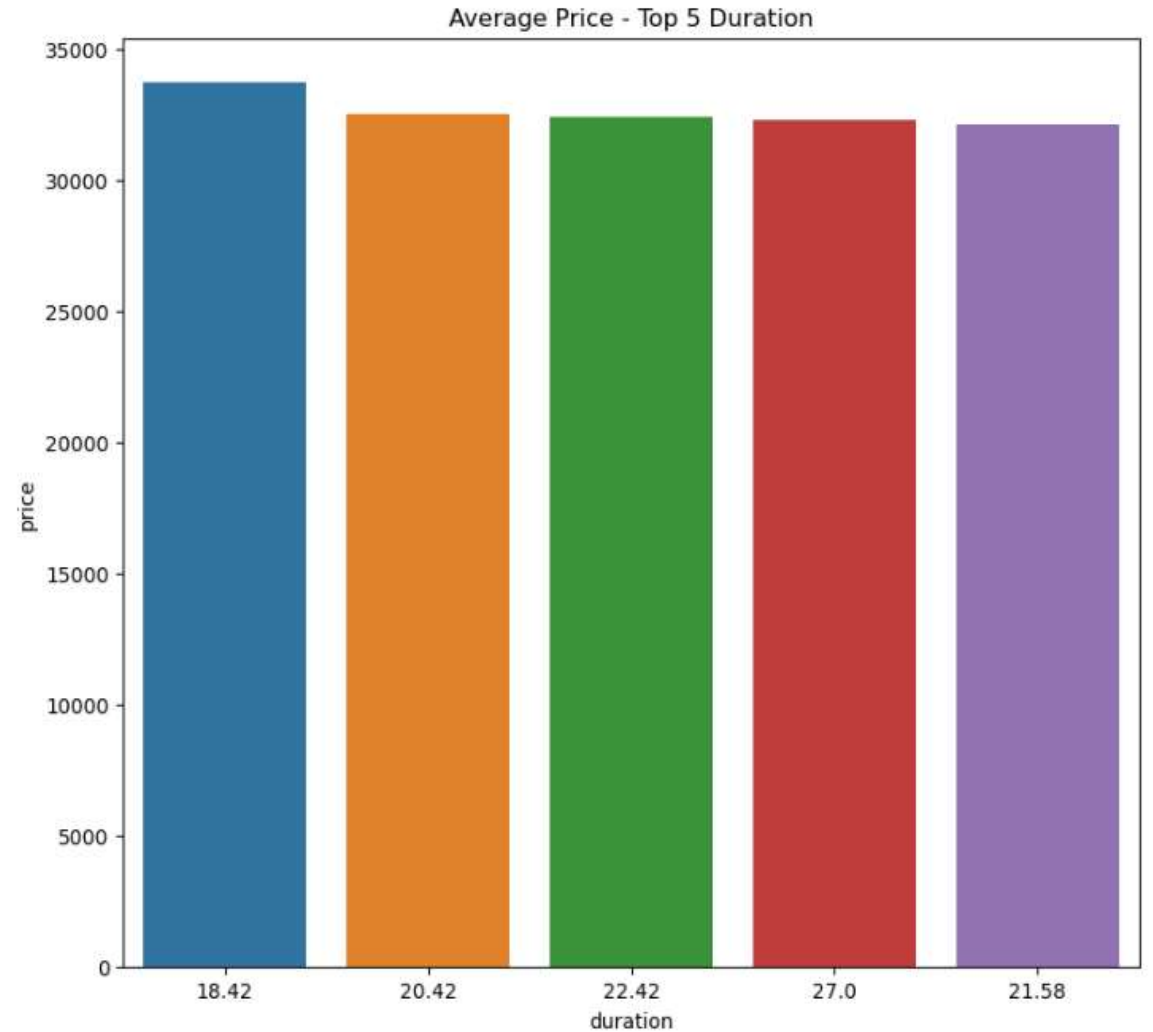
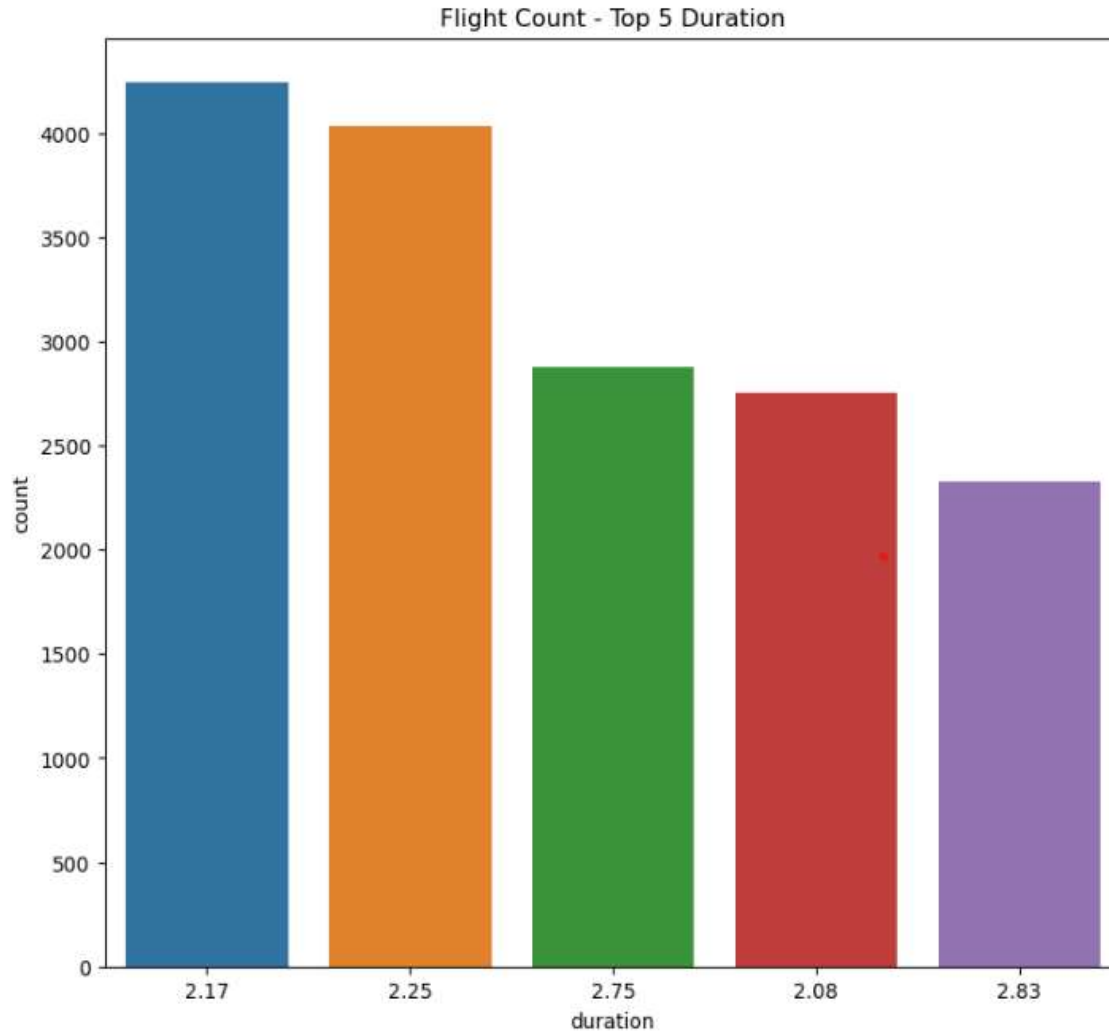


Average Price - Destination City



**Conclusion:** There are more number of flights having destination as Mumbai and flight which have destination as Kolkata and Chennai had the highest average ticket price.

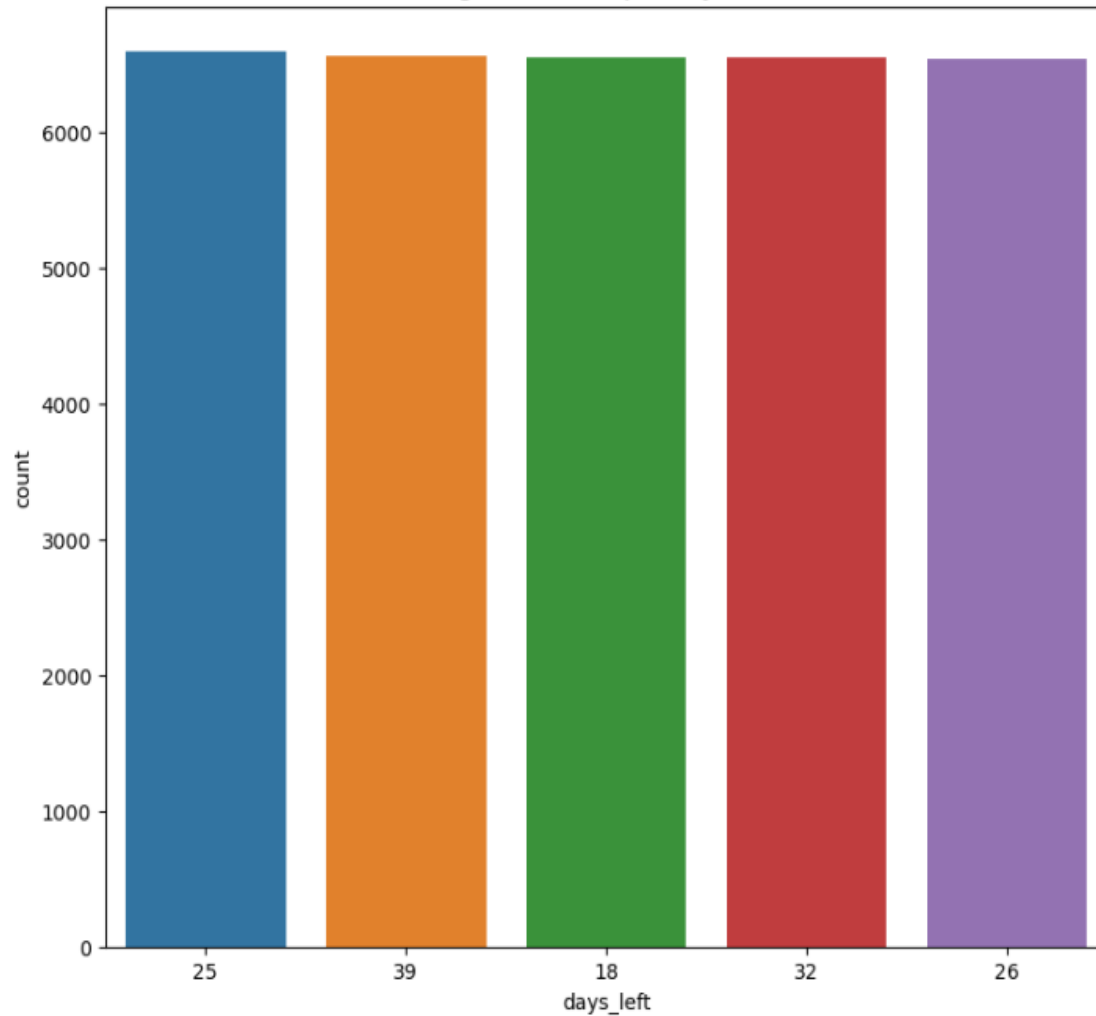
## ➤ Duration wise analysis



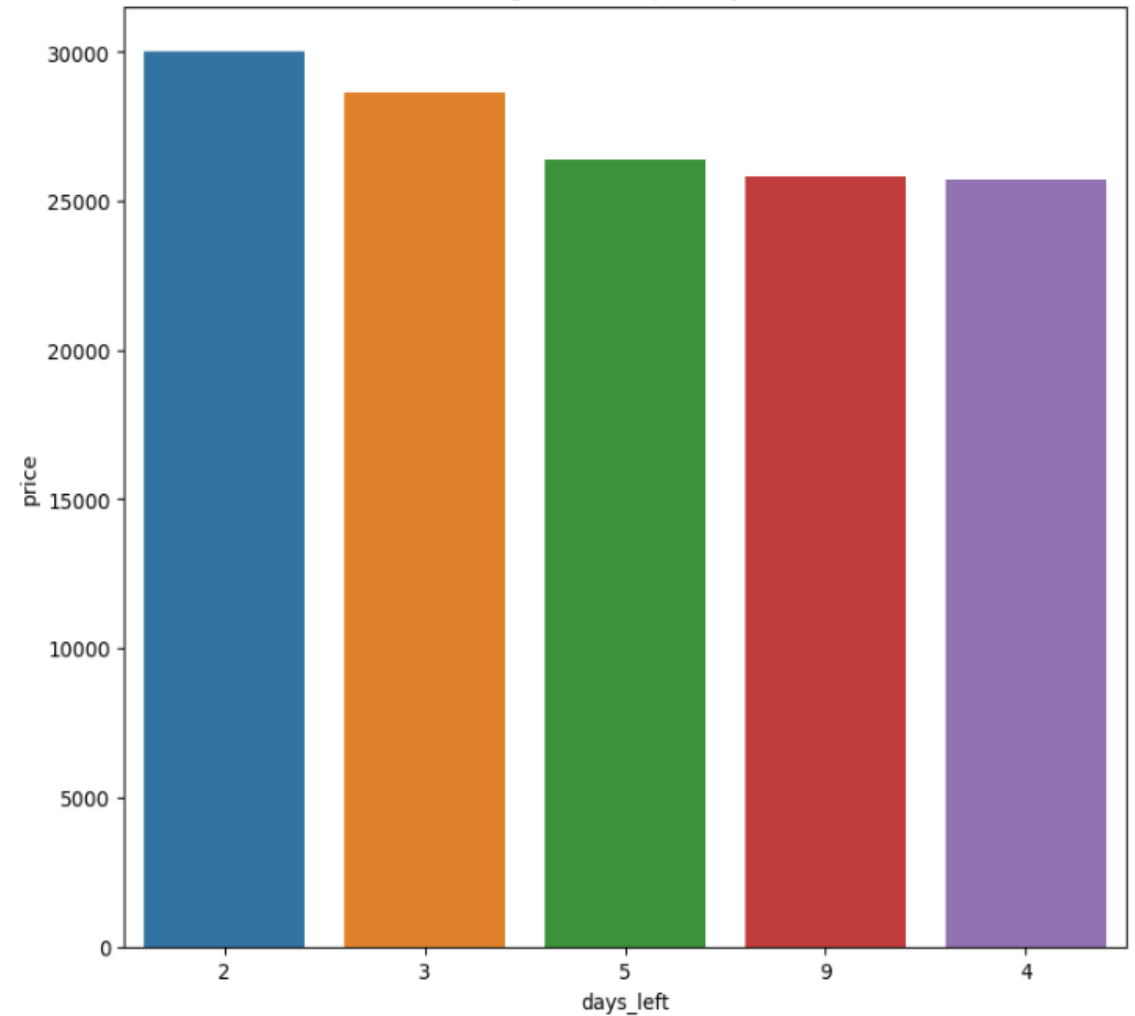
**Conclusion:** There are more number of flights that have flying duration of two hours and seventeen minutes while flights which have flying duration of eighteen hours and forty two minutes have the highest average ticket price

## ➤ Number of days left wise analysis

Flight Count - Top 5 Days Left



Average Price - Top 5 Days Left



**Conclusion:** Highest number of flights were found which had twenty five days left for departure and flights which had two days left for departure had the highest average ticket price.



# DISCUSSION

## □ Findings

- ✓ **Flights booked closer to departure date have higher prices**
- ✓ **Short duration flights are commonly booked but longer duration flight fetched higher prices**
- ✓ **Flight having destination like Kolkata and Chennai command higher prices while destination like Mumbai have more number of flights**
- ✓ **Flights that have only one stop are high in number and tend to fetch higher prices**

## ❑ Implications

- ✓ **Optimizing prices according to how far in advance customers book, airlines can maximize revenue**
- ✓ **Promoting longer duration flights as they tend to fetch higher prices.**
- ✓ **Adjusting pricing strategies on the basis of popular destinations**
- ✓ **Focusing more on flights having only one stop**

# CONCLUSION

- **The analysis provided important insights about booking pattern and pricing trends.**
- **Recommendation includes optimization in prices, promoting longer duration flights, focusing on commanding destinations etc**
- **Future analysis can inculcate seasonal trends and customer feedback for more accurate insights.**