

Report on "Flight Navigator: A Comprehensive Analysis of Air Travel Trends and Patterns"

1. OVERVIEW

The "Flight Navigator" dashboard presents a detailed analysis of air travel trends and patterns across various destinations and airlines. The key areas of focus include departure and arrival timings, price analysis by airlines, and Flight Duration Based on Destinations. This report summarizes the insights derived from the visualizations presented in the dashboard.

2. ANALYSIS OF DEPARTURE HOURS AND MINUTES BY DESTINATION.

- Visualization Type: Donut chart
- Insights
 - The analysis shows a varied distribution of departure times across different destinations.
 - Kolkata has the highest percentage (13.12%) of flights, with most departures around 30.96 minutes.
 - Delhi follows with 13.19% of flights, having an average departure around 30.91 minutes.
 - Cochin and Hyderabad also have significant departures at 11.56% and 10.49%, respectively.

3. ANALYSIS OF ARRIVAL AND MINUTES BY AIRLINES

- Visualization Type: Bar chart

- Insights:

- This chart compares the average arrival hours and minutes across different airlines.

- Jet Airways shows a higher average arrival time compared to other airlines, indicating potential delays (or) longer flights.

- Spicejet and Indigo have relatively lower average arrival times, suggesting quicker (or) more punctual flights.

- Airline and Vistara maintain a consistent arrival schedule, contributing to their reliability.

4. ANALYSIS OF PRICE BY AIRLINES

- Visualization Type: Bar chart

- Insights:

- Jet Airways dominates the price range with the highest cumulative ticket prices, indicating either premium services (or) longer routes.

- Air India follows, suggesting it offers competitive pricing (or) services.

- Indigo and GoAir are on the lower side of the pricing spectrum, indicating Budget-friendly options.

5. ANALYSIS OF DURATION HOURS BY DESTINATION

- Visualization Type : pie chart
- Insights :
 - The majority of long-duration flights (54.76%) are to Kolkata, indicating it is a key destination with extended travel times.
 - Delhi and Hyderabad have moderate flight durations, accounting for 31.14% and 8.82% respectively.
 - Cochin has the shortest average flight duration, contributing to 2.57% of the total.

6. CONCLUSION

The "Flight Navigator" dashboard effectively visualizes crucial air travel trends, offering insights into the dynamics of flight schedules, airlines pricing, and travel durations across different destinations. The analysis highlights the importance of Kolkata as a major destination with longer travel durations and emphasizes Jet Airways' significant pricing in the market. This dashboard can be instrumental for stakeholders in making informed decisions related to travel planning, airline selection, and understanding market dynamics.