**Project Overview: Flight Price Fare Analysis using Tableau**

**Objective:**

The aim of this project is to analyze flight price variations across different airlines, routes, departure times, and booking periods. By leveraging Tableau, the project visualizes insights that help understand the factors influencing airfare fluctuations, aiding both travelers and industry professionals in making data-driven decisions.

**Key Insights & Analysis:**

1. **Maximum & Minimum Fare Analysis:**
   * Displays the highest and lowest ticket prices for **Business Class** and **Economy Class**.
   * Helps identify the price range passengers can expect.
2. **Price Variation Among Airlines:**
   * Compares average ticket prices across multiple airlines (e.g., Vistara, Air India, Indigo, etc.).
   * Highlights the most and least expensive airlines.
3. **Price Variation by Source & Destination:**
   * Examines fare differences between major city pairs.
   * Uses a heatmap to showcase price fluctuations between locations like **Bangalore, Delhi, Chennai, and Mumbai**.
4. **Impact of Departure & Arrival Time on Prices:**
   * Analyzes how flight fares change based on different departure times (Morning, Afternoon, Evening, Night).
   * Identifies the cheapest and costliest time slots for air travel.
5. **Booking Timing & Price Trends:**
   * Displays the relationship between the number of days left before departure and ticket prices.
   * Shows a downward trend in fares as the booking period extends.

**User Controls & Filters:**

* **Airline Selector:** Compare fare variations across different airlines.
* **Class Selector:** Filter results for **Economy** and **Business Class**.
* **Days Left Slider:** Analyze price trends based on early vs. last-minute bookings.
* **Departure Time Filter:** Understand how timing affects pricing.
* **Number of Stops Filter:** Evaluate the impact of direct vs. connecting flights on fares.

**Conclusion:**

This project provides a **comprehensive analysis** of airfare trends, helping users make cost-effective travel decisions. It also offers **actionable insights** for airlines to optimize pricing strategies based on demand patterns.