Ride Booking Company- Exploratory Data Analysis (EDA)

Objective:

Perform exploratory data analysis (EDA) on the given dataset from a ride-booking company operating in multiple Indian cities. The aim is to gain insights into customer behavior, ride trends, vehicle preferences, and fare distributions.

Dataset Description:

The dataset contains 10,000 ride bookings with the following columns: -

1)Date: The date of the ride.

2)Time: The time of the ride.

3)Booking ID: Unique identifier for each booking.

4)Booking Status: Whether the ride was Completed, Cancelled, or Ongoing.

5) Customer ID: Unique identifier for each customer.

6) Vehicle Type: Type of vehicle chosen for the ride.

7)City: The city where the ride was booked.

8)Pickup Location: Starting point of the ride.

9)Drop Location: Ending point of the ride.

10) Fare (INR): Total fare charged for the ride.

Tasks to Perform:

- 1. Load and clean the dataset (check for missing values, duplicates, etc.).
- 2. Analyze booking trends over time (daily/weekly/monthly).
- 3. Identify the most popular vehicle types and cities.
- 4. Examine fare distributions across different vehicle types and cities.
- 5. Visualize booking status frequencies.
- 6. Segment customers based on booking patterns.
- 7. Identify any anomalies or interesting patterns in the data.

Bonus: Try clustering, feature engineering, or predictive modeling (e.g., fare prediction or cancellation prediction) based on EDA results.