

# Ola Ride Data Analysis Dashboard

## Power BI Project Documentation

### Project Overview

This project analyzes Ola ride booking data to identify trends in ride demand, revenue patterns, customer behavior, and city-wise performance. The objective is to transform raw ride data into meaningful business insights using a structured analytics workflow.

### Tools & Technologies Used

Python for data cleaning, SQL for data analysis, Power BI Desktop for visualization, Streamlit for project presentation, and GitHub for version control.

### Dataset Description

The dataset consists of ride-level transactional records including booking date and time, city, ride status, fare amount, distance traveled, and payment mode.

### Data Cleaning & Preprocessing

Data cleaning was performed using Python to remove duplicates, handle missing values, standardize categorical fields, correct data formats, remove invalid records, and create time-based features for analysis.

### Data Analysis Using SQL

SQL was used to analyze the cleaned dataset to derive insights such as city-wise performance, revenue trends, peak booking hours, cancellation behavior, and payment method usage.

### Power BI Visualization

The cleaned and analyzed data was imported into Power BI Desktop to create interactive dashboards using KPIs, filters, and slicers for effective insight generation.

### Key Insights

Major cities contribute the highest revenue, ride demand peaks during evening hours, digital payment methods dominate transactions, and cancellation rates increase during peak traffic periods.

### Conclusion

This project demonstrates practical skills in Python-based data cleaning, SQL-driven analysis, and Power BI dashboard creation, effectively presented through a Streamlit application.