

# Food Delivery Performance Dashboard

*A Data Analytics Project Using Microsoft Power BI*

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**Tool Used:** Microsoft Power BI

**Dataset Type:** Food Delivery App Orders (Custom Created, 200 Records)

## Project Overview

This project focuses on building a fully interactive **Food Delivery Performance Dashboard** using **Microsoft Power BI**. The aim is to analyze real-time delivery operations, customer behavior, order patterns, and revenue performance.

The dashboard highlights the key metrics that help understand business performance, identify trends, and support better decision-making. It showcases my ability to work with data cleaning, transformation, visualization, and storytelling — skills that are essential in a data analytics role.

## Dataset Description

A custom dataset containing **200 food delivery orders** was used for this project. The dataset is designed to simulate real-world operations similar to Zomato or Swiggy.

It includes the following fields:

- **OrderID**
- **OrderDateTime**
- **CustomerID**
- **City**
- **FoodCategory**
- **RestaurantName**
- **OrderAmount**
- **Discount**
- **Profit**
- **DeliveryTime\_minutes**

- **DeliveryDistance\_km**
- **OrderStatus**
- **CustomerRating**
- **DeliveryPartnerID**

The dataset was ideal for analyzing delivery trends, revenue patterns, and category-level performance.

## Data Cleaning & Preparation

To ensure accuracy and consistency, the following steps were performed:

- Removed duplicate records
- Corrected data types (DateTime, numeric fields, text fields)
- Converted OrderDateTime into proper date-time format
- Created key metrics such as **Profit**
- Added new fields internally like Month/Week for trend analysis
- Ensured clean category names and consistent formatting
- Verified all numeric columns for correct aggregation behavior

These steps helped prepare the data for building a clean and reliable dashboard.

## Dashboard Components

The final dashboard includes:

### Key KPIs

- Total Orders
- Total Revenue
- Total Profit

### Visualizations

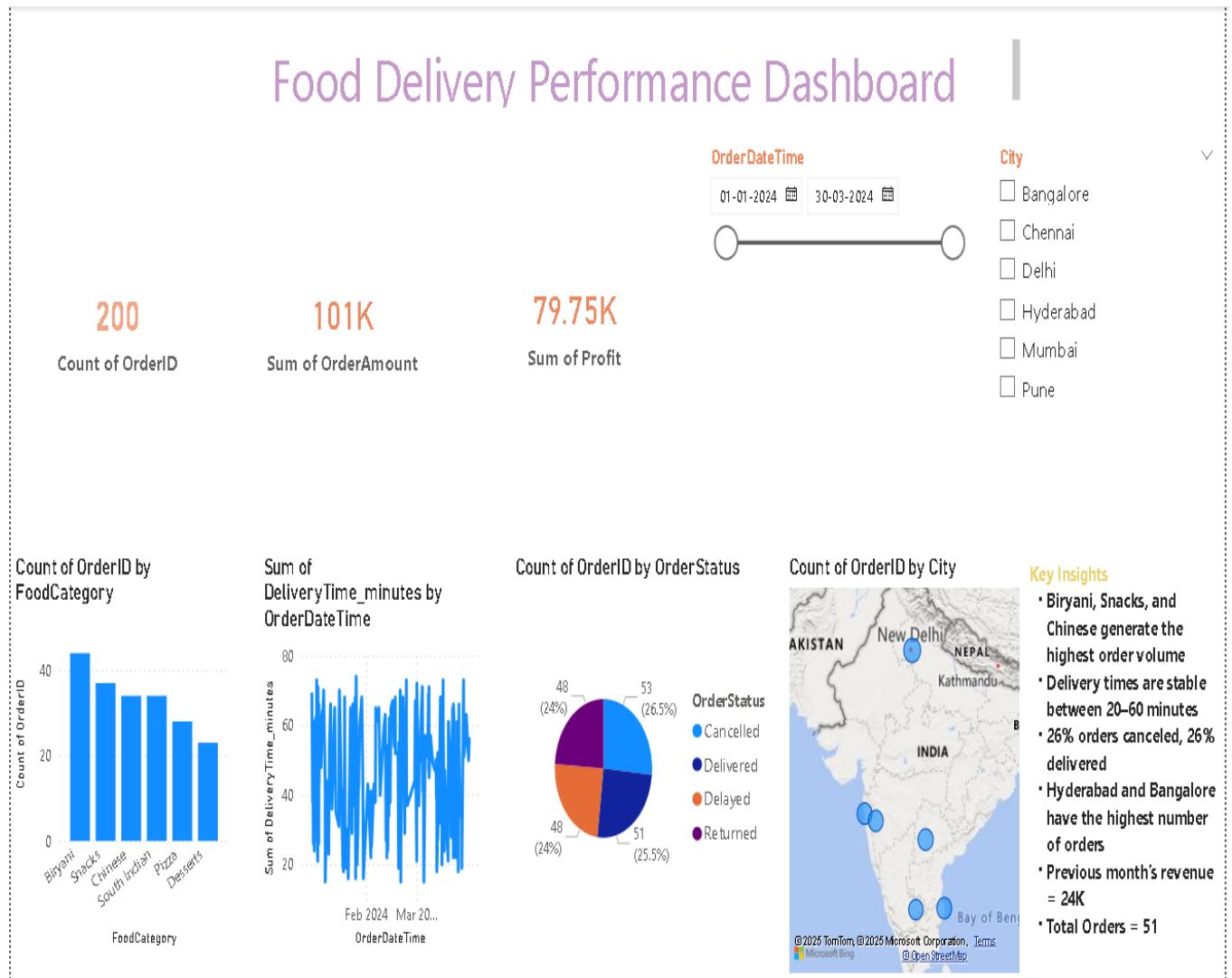
- Line chart (Delivery Time Trend)
- Pie chart (Order Status Distribution)
- Map chart (Orders by City)
- Slicers (Date & City)

## Interactivity

All visuals are connected and update dynamically when filters are applied.

The dashboard layout is designed to be clean, intuitive, and visually appealing with consistent colors and spacing.

## Final Dashboard



## Key Insights

The dashboard provides several important observations:

- **Biryani, Snacks, and Chinese** are the most frequently ordered food categories, indicating strong customer preference.
- **Delivery times remain consistent between 20–60 minutes**, showing stable operational performance.
- **Order Status Distribution:**
  - **26% delivered,**
  - **26% cancelled,**
  - and the remaining include delayed and returned orders.
- **Hyderabad and Bangalore** recorded the **highest number of orders**, making them strong-performing regions.
- **Previous month's revenue is approximately ₹24,000**, indicating moderate monthly financial activity.
- During the selected period, a total of **51 orders** were recorded.

These insights help identify strengths (popular categories, top cities) and areas for improvement (cancellations, delivery delays).

## Challenges & Solutions

During the project, a few challenges were encountered and resolved:

### Challenge 1:

The Map visual was disabled due to security settings.

**Solution:** Enabled map visuals through *File → Options → Security → Enable Map and Filled Map Visuals*, then restarted Power BI.

### Challenge 2:

OrderDateTime was automatically converting into a Date Hierarchy.

**Solution:** Removed the hierarchy and selected the direct DateTime field to create a proper trend line.

### Challenge 3:

Some visuals were applying unwanted filters to KPIs when clicked.

**Solution:** Removed cross-filter interactions and cleared all slicer selections.

#### **Challenge 4:**

Layout alignment was uneven.

**Solution:** Enabled gridlines and adjusted spacing to create a cleaner, more professional design.

## **Conclusion**

This project demonstrates my ability to work end-to-end on a data analytics assignment — from dataset creation, cleaning, and transformation, to building a visually appealing, interactive dashboard.

The insights generated help understand:

- Regional demand
- Customer preferences
- Delivery performance
- Revenue trends
- Overall operational effectiveness

Through the use of Power BI, I was able to turn raw data into actionable insights that can support business decision-making. This dashboard represents the analytical thinking and visualization skills required for a data analytics role.

## **Dashboard File Link (GitHub)**

You can access the full Power BI dashboard and dataset here:

**GitHub Repository:** <https://github.com/kasiviswanadh123/Food-delivery-dashboard>

#### **Note:**

To view the dashboard, please download the .pbix file in github and open it using Microsoft Power BI Desktop.

