**Project Title**

Restaurant Analysis of Swiggy

**Problem Statement:**

The goal is to analyze and visualize restaurant data using Power BI to create interactive dashboards that provide actionable insights that helps us for decision-making.

**Data Preprocessing Steps**:

1. Data set was loaded into Power BI for data cleaning and data preprocessing
2. Applied filters for all the columns
3. Assigned data types for all the columns
4. Checked for null values and are removed
5. Duplicate values are cross-checked
6. New table was created for analyzing average ratings
7. New measures were created for analyzing the correlation between price, total rating, delivery time and average ratings
8. New Measure for assigning Minimum and maximum values

**Findings and Insights:**

1. As we analyzed the price distribution of restaurants, it is seen that the distribution is positively skewed, which means the mean (average price) is greater than the median.
2. Calculating the correlation co-efficient between price, total rating, delivery time and average ratings, we could identify that there is positive correlation between price and average rating of +0.11%
3. We could also identify that there is positive correlation between total ratings and average rating of +0.16%
4. Delivery time is negatively correlated with the average rating (-0.15%)
5. Delivery time for each city is as follows:

|  |  |
| --- | --- |
| **City** | **Average Delivery Time** |
| Ahmedabad | 44.71 |
| Mumbai | 48.32 |
| Surat | 48.48 |
| Hyderabad | 49.93 |
| Bangalore | 50.53 |
| Delhi | 50.73 |
| Pune | 55.85 |
| Chennai | 58.97 |
| Kolkata | 67.81 |

1. Total restaurants are 7865 and about 662 restaurants are top rated restaurants (above 4.5 average ratings).

**Recommendations:**

1. Delivery time should be improved in Pune, Chennai and Kolkata by identify areas with longer delivery times and adjust routing strategies.
2. Adjusting pricing during off-peak hours to boost sales.
3. High-margin restaurants should be promoted more aggressively on the app.
4. Highlighting Top-Rated Restaurants to drive more orders.
5. Work with restaurants to identify items that take less time to prepare and promote these during busy periods to reduce overall delivery time.