

Analyzing Swiggy

Wireframe Documentation

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ANALYSIS:

As per the problem statement, we have defined the several Use Cases to perform the analysis on which helps in not only understanding the meaningful relationships between attributes but it also allows us to do our own research and come-up with our findings.

BASIC INFORMATION:

The project analyzed the data of food delivery service provider, Swiggy, in Bangalore. The dataset used in this project was obtained from Google Drive and consisted of information about restaurants in Bangalore, their cuisines, ratings, and costs.



TOP 5 ROWS OF THE DATA:

	Shop_Name	Cuisine	Rating	Average_Cost	Cost_Category	Street	Area	Total_Cuisine
0	Kanti Sweets	Sweets	4.3	75.0	low	Koramangala	Koramangala	1
1	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	4.4	200.0	medium	Sector 5	HSR	4
2	Sri Krishna sagar	South Indian, North Indian, Fast Food, Beverag	4.1	63.0	low	6th Block	Koramangala	5
3	Al Daaz	American, Arabian, Chinese, Desserts, Fast Foo	4.4	200.0	medium	HSR	HSR	7
4	Beijing Bites	Chinese, Thai	4.1	225.0	medium	5th Block	Koramangala	2

The top 5 rows of the dataset were displayed using the head() function. This showed the column names and some sample data from the dataset, including the restaurant name, location, rating, cuisines, and average cost for two people.

NUMBER OF UNIQUE VALUES FOR EACH ATTRIBUTE:

Shop_Name	115
Cuisine	79
Rating	13
Average_Cost	30
Cost_Category	3
Street	63
Area	4
Total_Cuisine	10
dtype: int64	

The unique values for each attribute were determined using the nunique() function. This showed the number of unique values for each attribute in the dataset, including the number of unique restaurant names, unique locations, unique cuisines, and unique ratings.



NO. OF RESTAURANTS BY COST CATEGORY:

Number of Restaurants by Cost Category :

Cost_Category high 10 low 51 medium 57

Name: Shop_Name, dtype: int64

The No. of Restaurants for each cost category was calculated using the groupby() function. This grouped the data based on the no. of records and calculated the cost category from average cost. The output showed the No. of restaurant for each cost category in Ascending order, with the cost category and lowest No. of restaurant listed first.

AVERAGE COST PER PERSON BY AREA:

Area

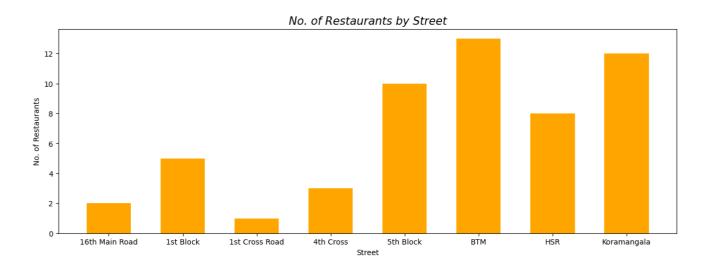
BTM 164.542857 HSR 194.444444 Jayanagar 150.000000 Koramangala 148.914062

Name: Average_Cost, dtype: float64

The average cost for each was also calculated using the groupby() function. This grouped the data based on the area and calculated the average cost for each area. The output showed the average cost per person for each area in Ascending order, with the area with the lowest average cost per person listed first.

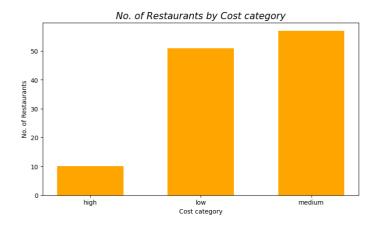


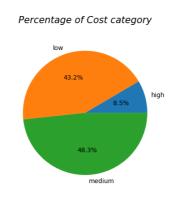
No. OF RESTAURANTS BY STREET:



The bar graph displays the no. of restaurants for each street in Bangalore. This analysis helps to identify which streets have the highest no. of restaurants. This information can help customers make informed choices when deciding on which street.

<u>PIE CHART OF THE DISTRIBUTION OF RESTAURANTS BY</u> COST CATEGORY:



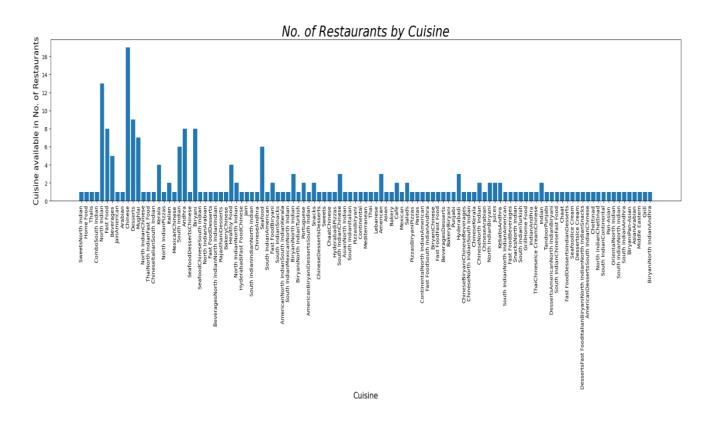






The pie chart and bar graph displays the distribution of restaurants based on their cost category. The analysis helps to identify the percentage of restaurants that fall under each cost category. This information can help customers choose restaurants based on their budget.

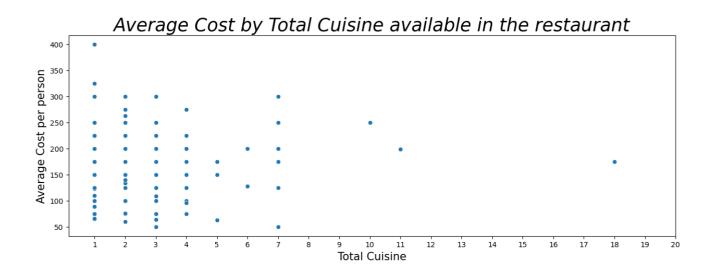
BAR GRAPH FOR CUISINE AVAILABLE IN NO. OF RESTAURANTS:



The bar graph displays the distribution of cuisines for all the restaurants in Bangalore. The analysis helps to identify the distribution of cuisines and the most common cuisine available in most restaurant.

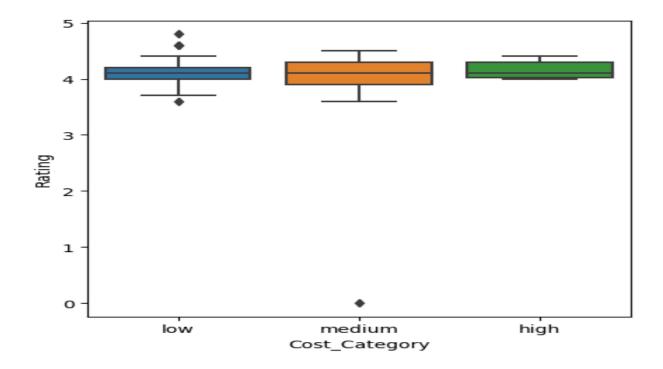


SCATTER PLOT FOR AVERAGE COST AND TOTAL CUISINE:



The analysis displays the number of cuisines in restaurants as Total cuisine and average cost. This information can help us identify the no. of cuisine required for restaurant and to decide their average cost.

BOX PLOT FOR AVERAGE RATING BY COST CATEGORY:







The box plot displays the average rating by cost category. This analysis helps to identify which cost category has the highest average rating and which has the lowest. This information can help customers choose restaurants based on their budget and still enjoy good ratings.

Overall, the analysis performed in the project provides useful insights for customers in Bangalore who use Swiggy for food delivery services. The information can help us make informed choices on which cuisine, restaurant, and location can be concern