

# **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:**

```
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₽
    <class 'pandas.core.frame.DataFrame'>
    Int64Index: 117 entries, 0 to 117
    Data columns (total 7 columns):
                             Non-Null Count
        Column
                                             Dtype
                             117 non-null
       shop name
                                             object
       cuisine
     1
                             117 non-null
                                             object
     2
        location
                             117 non-null
                                             object
                                             float64
     3
       rating
                             117 non-null
       cost for two
                                             int64
     4
                             117 non-null
        avg cost per person 117 non-null
                                             float64
        cost category
                             117 non-null
                                             object
    dtypes: float64(2), int64(1), object(4)
    memory usage: 7.3+ KB
    None
```

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:

```
Top 5 rows of the data:
            shop name
                                                                       cuisine
        Kanti Sweets
       Mumbai Tiffin
                                    North Indian, Home Food, Thalis, Combo

    Sri Krishna sagar South Indian, North Indian, Fast Food, Beverag...
    Al Daaz American, Arabian, Chinese, Desserts, Fast Foo...

       Beijing Bites
                                                                Chinese, Thai
                     location rating cost_for_two avg_cost_per_person
  Koramangala, Koramangala 4.3
                                                  150
                                                                         75.0
               Sector 5, HSR
                                   4.4
                                                  400
                                                                        200.0
   6th Block, Koramangala
                                                                         63.0
                                                   126
                                   4.4
                    HSR, HSR
                                                   400
                                                                        200.0
     5th Block, Koramangala
                                                   450
                                   4.1
                                                                        225.0
```

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:



```
Number of unique values for each attribute:
shop name
                        114
cuisine
                         79
location
                         65
rating
                         12
cost_for_two
                         30
avg cost per person
                         30
cost_category
                          2
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.

## **AVERAGE COST FOR EACH CUISINE:**



Average cost for each cuisine: cuisine American 450.000000 American, Arabian, Chinese, Desserts, Fast Food, Mughlai, North Indian 400.000000 American, Fast Food 350.000000 Andhra, Biryani 433.333333 Andhra, Biryani, Chinese, Desserts, Fast Food, Seafood, South Indian 225.000000 South Indian, North Indian, Fast Food, Beverages, Jain 126.000000 South Indian, Snacks, North Indian, Chinese 250.000000 Sweets 150.000000 Turkish, Portuguese, American 300.000000 Turkish, Portuguese, American, Grill 300.000000 Name: cost for two, Length: 79, dtype: float64

The average cost for each cuisine was calculated using the groupby() function. This grouped the data based on the cuisine and calculated the average cost for two people for each cuisine. The output showed the average cost for each cuisine in descending order, with the cuisine with the highest average cost listed first.

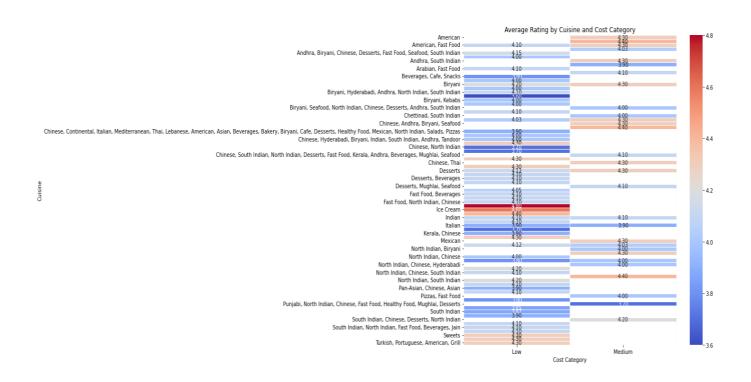
## **AVERAGE RATING FOR EACH CUISINE:**



```
Average rating for each cuisine:
cuisine
American, Arabian, Chinese, Desserts, Fast Food, Mughlai, North Indian
                                                                           4.400000
American, Fast Food
                                                                           4.166667
Andhra, Biryani
                                                                           4.033333
Andhra, Biryani, Chinese, Desserts, Fast Food, Seafood, South Indian
                                                                           4.150000
South Indian, North Indian, Fast Food, Beverages, Jain
                                                                           4.100000
South Indian, Snacks, North Indian, Chinese
                                                                           4.100000
                                                                           4.300000
Sweets
Turkish, Portuguese, American
                                                                           4.300000
Turkish, Portuguese, American, Grill
                                                                           4.300000
Name: rating, Length: 79, dtype: float64
```

The average rating for each cuisine was also calculated using the groupby() function. This grouped the data based on the cuisine and calculated the average rating for each cuisine. The output showed the average rating for each cuisine in descending order, with the cuisine with the highest average rating listed first.

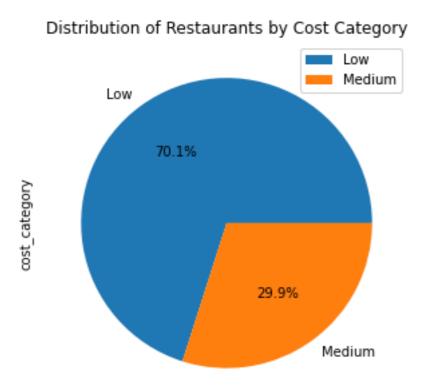
#### **Average Rating by Cuisine And Cost Category:**





average cost and rating. This information can help customers make informed choices when deciding on which cuisine to order.

Pie chart of the distribution of restaurants by cost category:

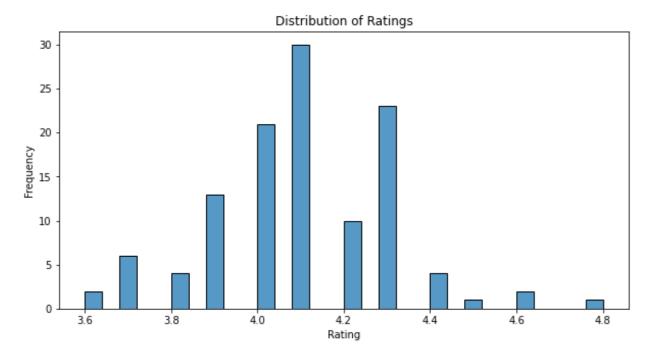


The pie chart displays the distribution of restaurants based on their cost category. The analysis helps to identify the percentage of restaurants that fall under each cost category. This information can help customers choose restaurants based on their budget.

Histplot for distribution of ratings:





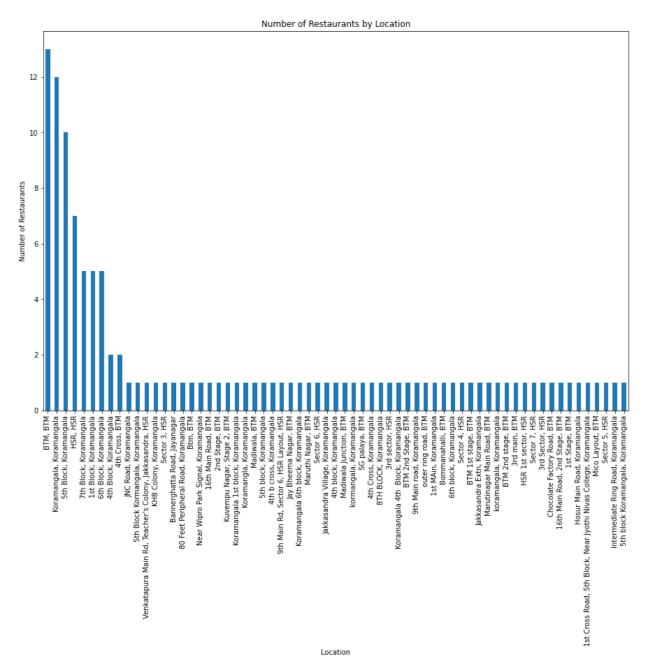


The histogram displays the distribution of ratings for all the restaurants in Bangalore. The analysis helps to identify the distribution of ratings and the most common rating score given by customers.

Number of restaurants by location:





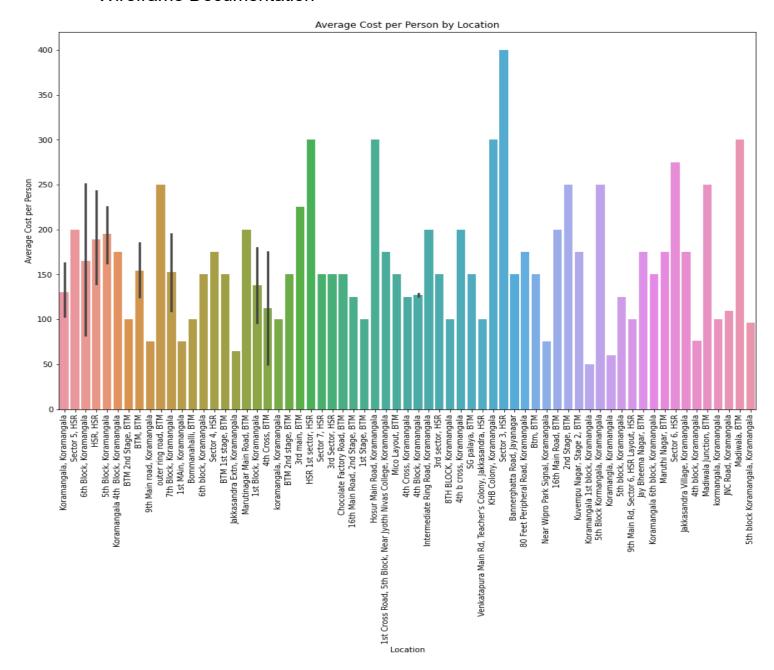


The analysis displays the number of restaurants by location. This information can help customers identify the areas with the highest number of restaurants and make informed choices when deciding on which area to order from.

Barplot for Average cost per person by location:



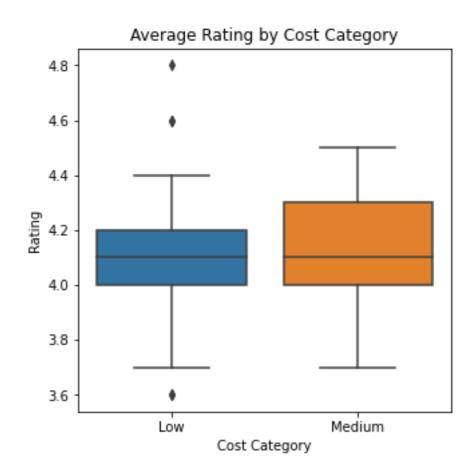




The barplot displays the average cost per person by location. This analysis helps to identify the areas with the highest and lowest average cost per person. This information can help customers choose restaurants based on their budget.



## 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 customers make informed choices on which cuisine, restaurant, and location to order from based on their budget, preferred rating, and location.

