ZOMATO API-2 PROJECT

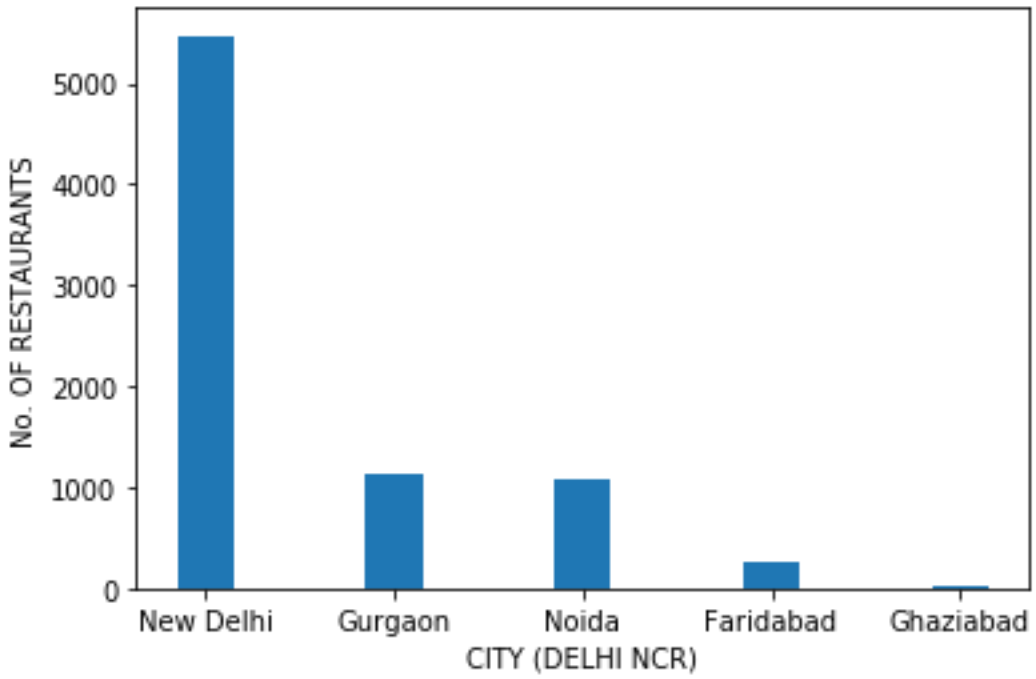
Graph Explanation

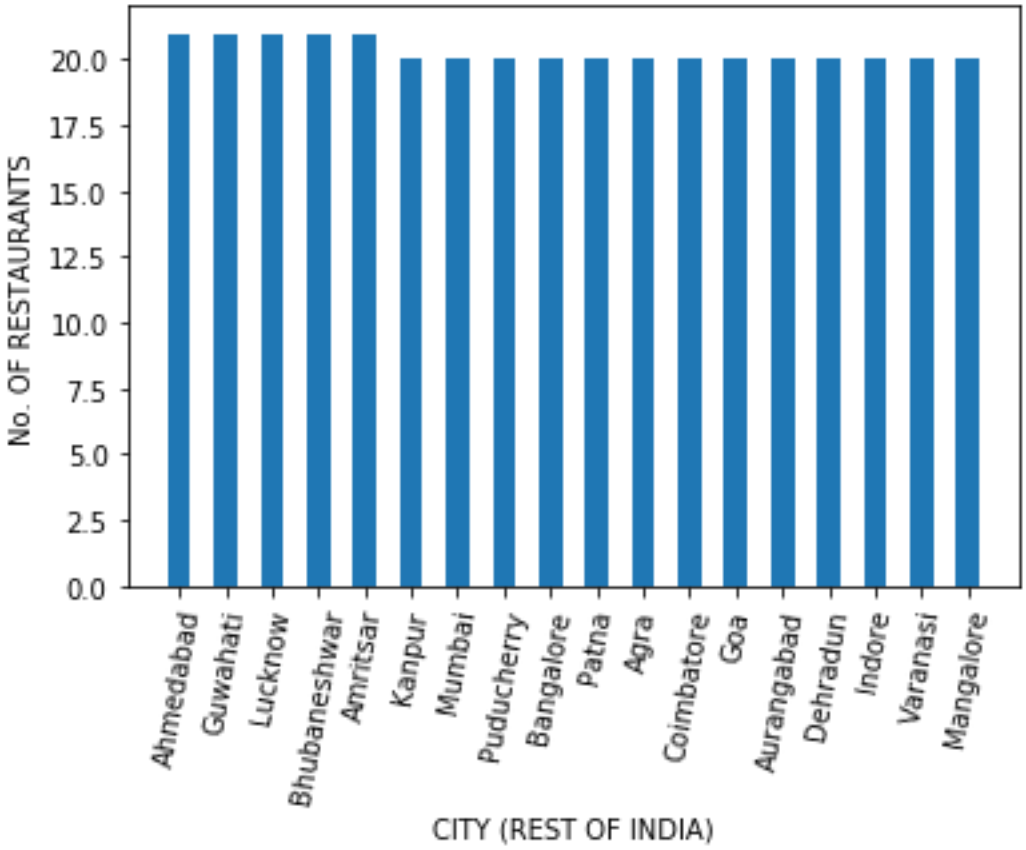
Plot and Explanation

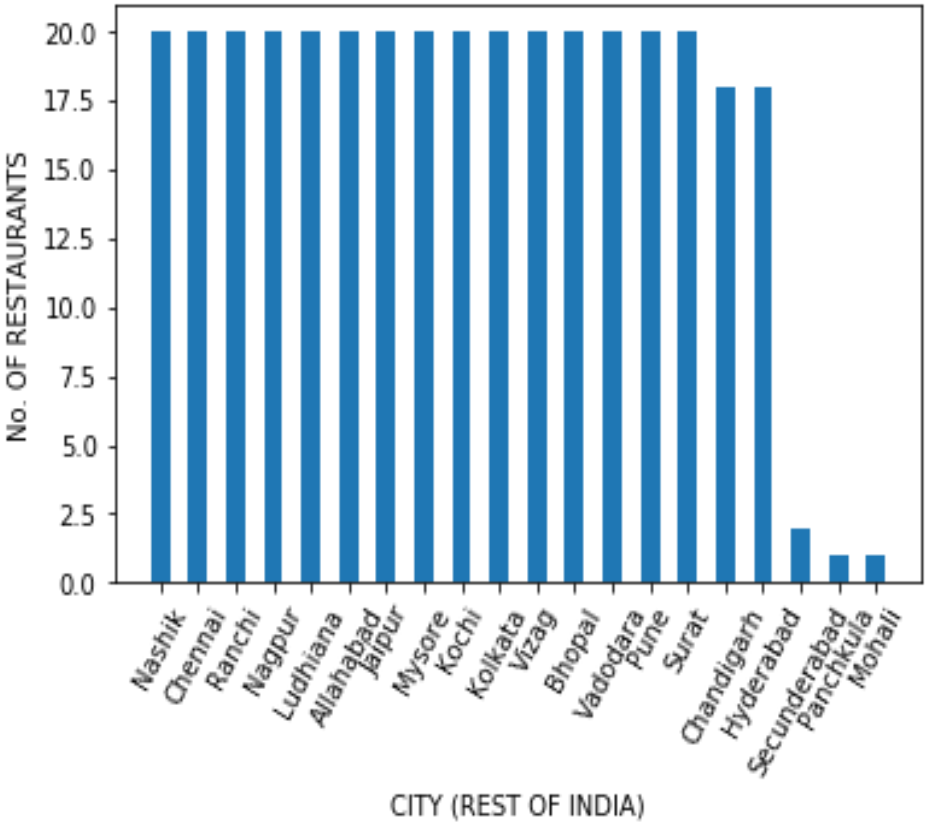
Ques1: 1> The dataset is highly skewed toward the cities included in Delhi-NCR. So, we will summarise all the other cities in Rest of India while those in New Delhi, Ghaziabad, Noida, Gurgaon, Faridabad to Delhi-NCR. Doing this would make our analysis turn toward Delhi-NCR v Rest of India.

2: Plot the bar graph of number of restaurants present in Delhi NCR vs Rest of India.

Ans:




No. OF RESTAURANTS
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Ahmedabad
Guwahati
Lucknow
Bhubaneshwar
Amritsar
Kanpur
Mumbai
Puducherry
Bangalore
Patna
Agra
Coimbatore
Goa
Aurangabad
Dehradun
Indore
Varanasi
Mangalore
CITY (REST OF INDIA)


No. OF RESTAURANTS
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Nashik
Chennai
Ranchi
Nagpur
Ludhiana
Allahabad
Jaipur
Mysore
Kochi
Kolkata
Vizag
Bhopal
Vadodara
Pune
Surat
Chandigarh
Hyderabad
Secunderabad
Panchkula
Mohali
CITY (REST OF INDIA)

Explanation:

So will conclude this by:

1: So with the help of bar graph I just conclude the number of restaurants in the Delhi NCR and the rest of India.

2: With the help of graph we can see that the number of restaurants in New Delhi, Faridabad, Noida, Gurgaon, Ghaziabad are really very high and New Delhi with the highest number of restaurants.

3: In the rest of India ,the frequency of restaurants are not really high.

2> 2: Find the cuisines which are not present in restaurant of Delhi NCR but present in rest of India. Check using Zomato API whether this cuisines are actually not served in restaurants of Delhi-NCR or just it due to incomplete dataset.

Answer:

Explanation:

BBQ

German

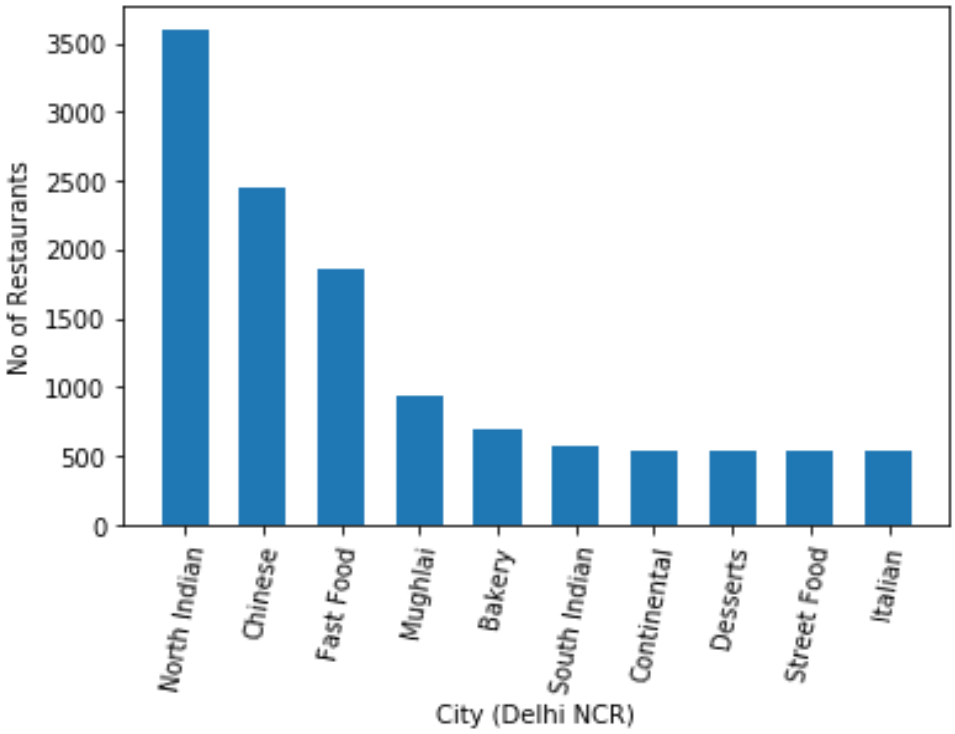
Malwani

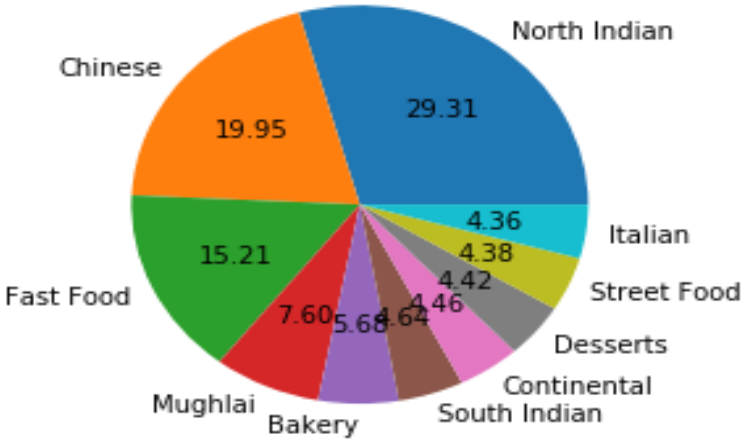
Cajun

So these are the cuisines which are not present in the Delhi NCR restaurants as per the data stored in the csv files. But as per the Zomato API some of the Cuisines are also present in the Delhi NCR restaurants.

2> 3: Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.

Answer:



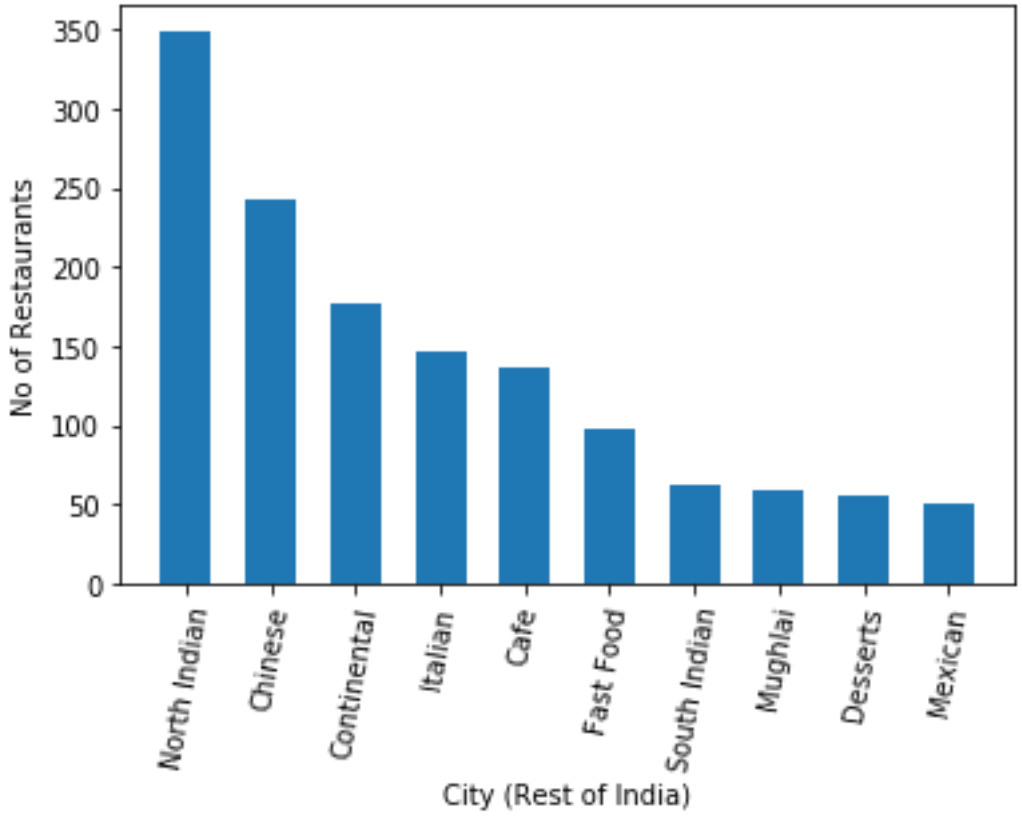


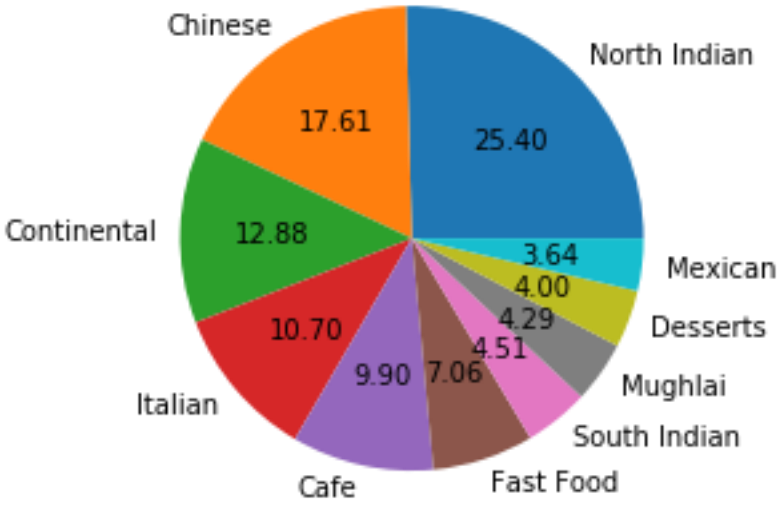
Explanation:

After putting all these in the proper ploting I can say that:

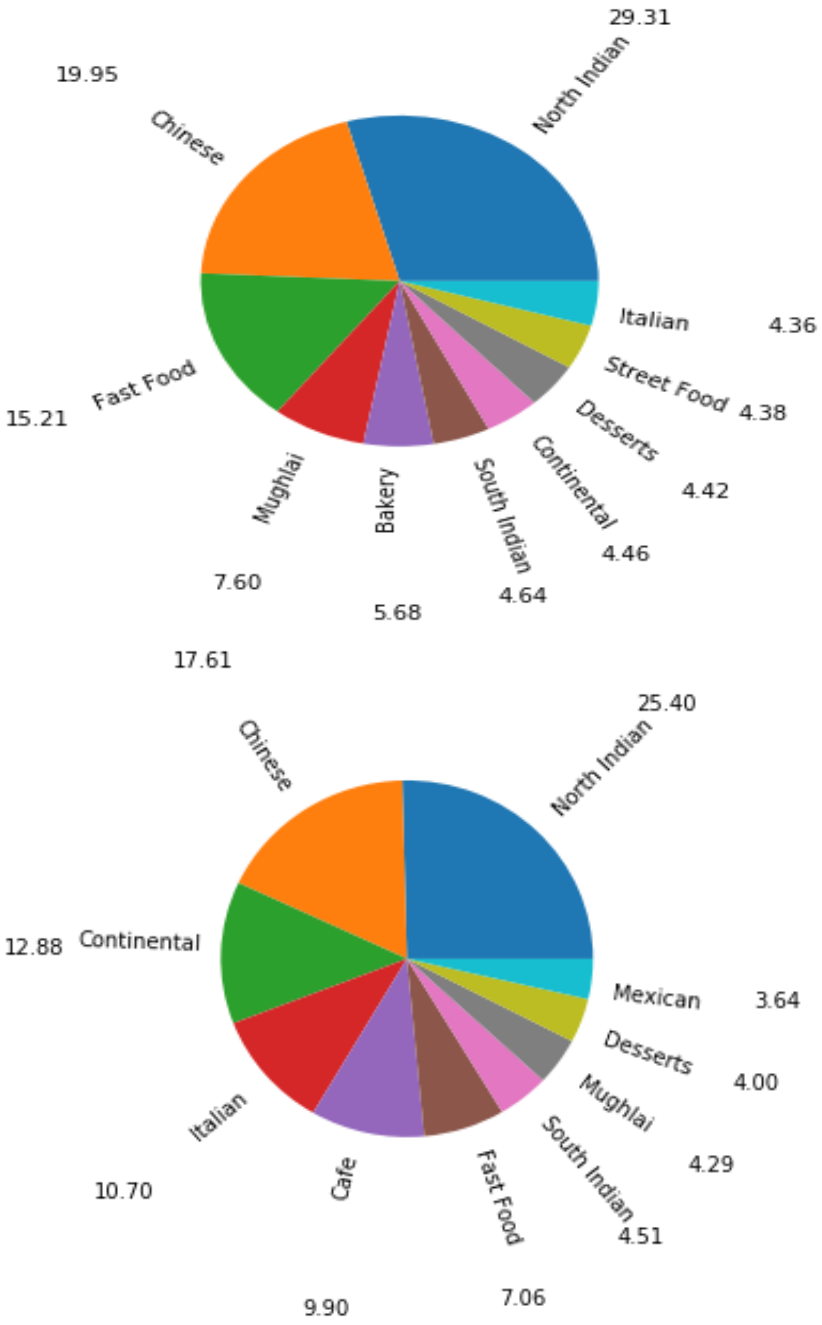
1: These are the top 10 cuisines which are served by Delhi NCR. Here I plotted a bar graph and a pie graph for the same .here I can say that the people in delhi NCR loves North Indian food very much.

2:Now in the down I plotted the bar graph and pie graph for the top 10 cuisines of the rest of the India. Here also North Indian and Chines are the 2 most loving dishes of the cities.





2> 4: Write a short detailed analysis of how cuisine served is different from Delhi NCR to Rest of India. Plot the suitable graph to explain your inference.



Explanation:

1: Here in the left side the cuisines served by the Delhi NCR while in the right side cuisines served by the Rest of India.

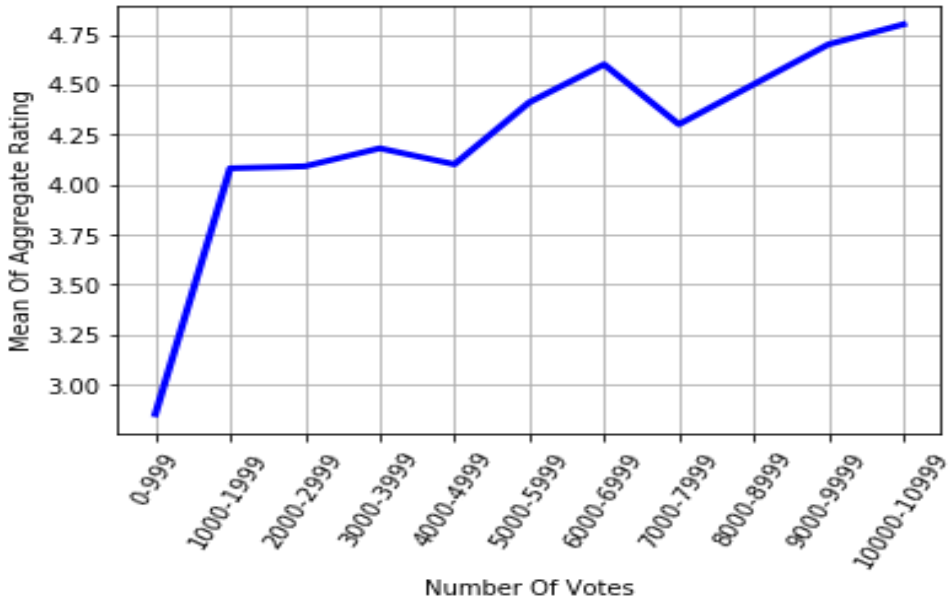
2:here in the top 2 cuisines we see that both are having the same just the percentage is different.But after that I can say that with the help of the graph that in the top 10 cuisines delhi NCR love the Bakery as their cuisine while the rest of india love café type as their cuisine.

3: In delhi NCR people basically prefer fast food while rest of the india mostly prefer continental as their cuisine. Street food is also loved by the delhi NCR while Mexican dishes loved by the Rest of the india.

2> User Rating of a restaurant plays a crucial role in selecting a restaurant or ordering the food from the restaurant.

1: Write a short detail analysis of how the rating is affected by restaurant due following features: Plot a suitable graph to explain your inference.

1: Number of Votes given RestaurantAnswer:



Explanation:

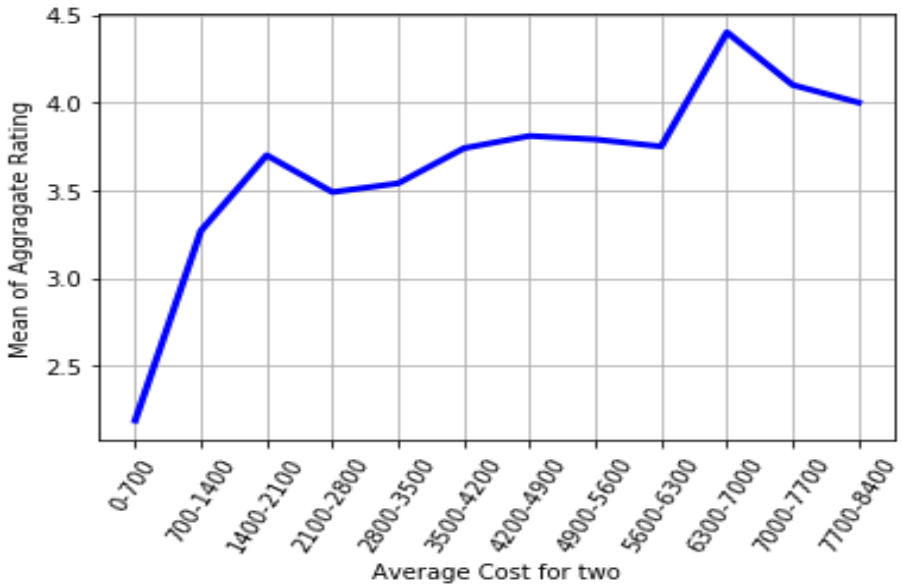
Here I plot the graph between mean of the aggregate rating and the number of votes a per the data and then number of votes are divided into some ranges.

1: with the help of this I can say that votes provided by the users are very essential for the rating as many people mark the rating high only for some ranges where the votes are also really high.

2: As we can see in the graph the highest rating provided to the restaurants where votes lies between 10000-10999 and the rating is 4.75.

3: Average Cost of Restaurant

Ans:



Explanation:

Here I plot the graph between mean of the aggregate rating and the average cost for two as per the data and then average cost for two are divided into some ranges.

1: with the help of this I can say that average cost for two are also play very important role while deciding the ratings as here we can see that the highest rating was given to the price range between 6300-7000 and the rating is 4.5 i.e maximum.

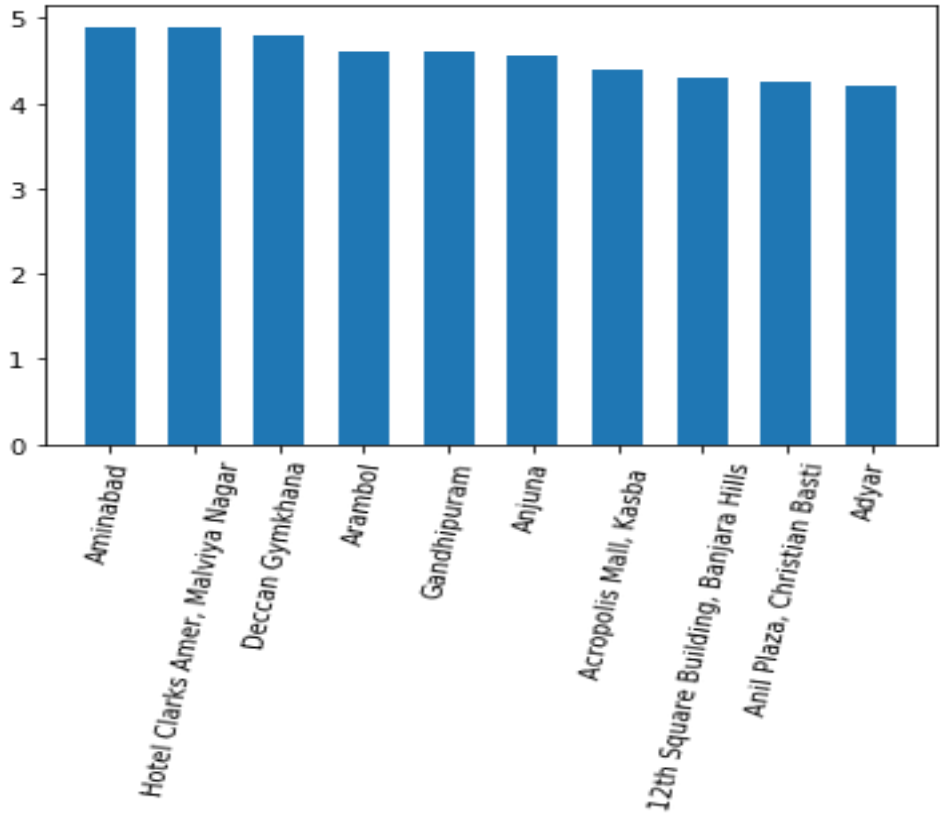
2: As we also know whenever we order something from the restaurant to show our class we order foods with high cost so basically that is the thing that is shown here. But with the price range of 7700 -8400 the average rating is not so high its only 4.0 so this shows that the middle class family basically order the food and high class also with the price range of about 6300-7000.

2> User Rating of a restaurant plays a crucial role in selecting a restaurant or ordering the food from the restaurant.

2: Find the weighted restaurant rating of each locality and find out the top 10 localities with more weighted restaurant rating?

*1: Weighted Restaurant Rating=Σ (number of votes * rating) / Σ (number of votes) .*

Ans:



Locality Name	*Weighted Restaurant Rating*
Aminabad	*4.900000*
Hotel Clarks Amer, Malviya Nagar	*4.900000*
Deccan Gymkhana	*4.800000*

Arambol	*4.600000*
Gandhipuram	*4.600000*
Anjuna	*4.570000*
Acropolis Mall, Kasba	*4.400000*
12th Square Building, Banjara Hills	*4.300000*
Anil Plaza, Christian Basti	*4.250000*
Adyar	*4.200000*

Explanation:

Here I plot the graph between weighted restaurant rating and the locality :

And these which are shown upper are the results.