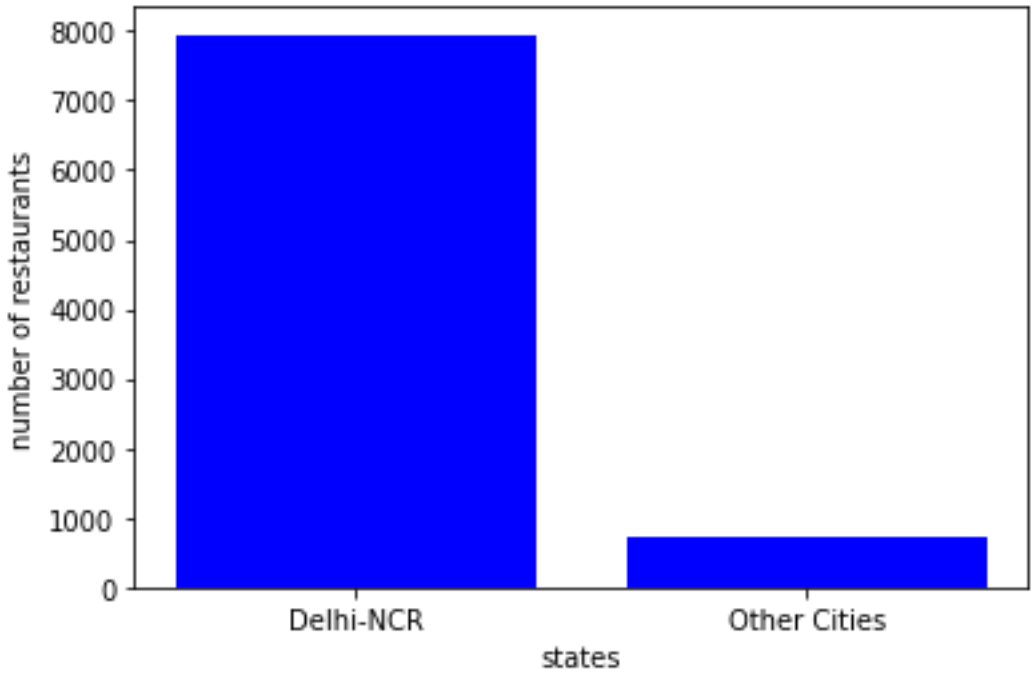
PROJECT ZOMATO API – II

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.

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

Answer:



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.

Ans : BBQ , Malwani

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

Answer:

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North Indian :  3597
Chinese :  2448
Fast Food :  1866
Mughlai :  933
Bakery :  697
South Indian :  569
Continental :  547
Desserts :  542
Street Food :  538
Italian :  535
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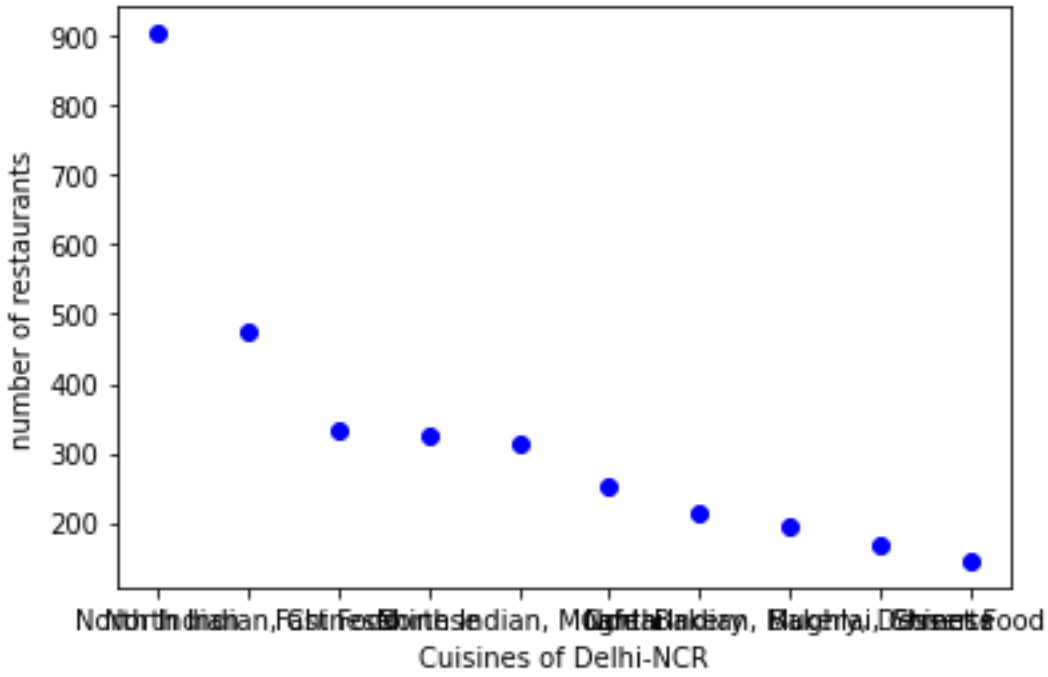
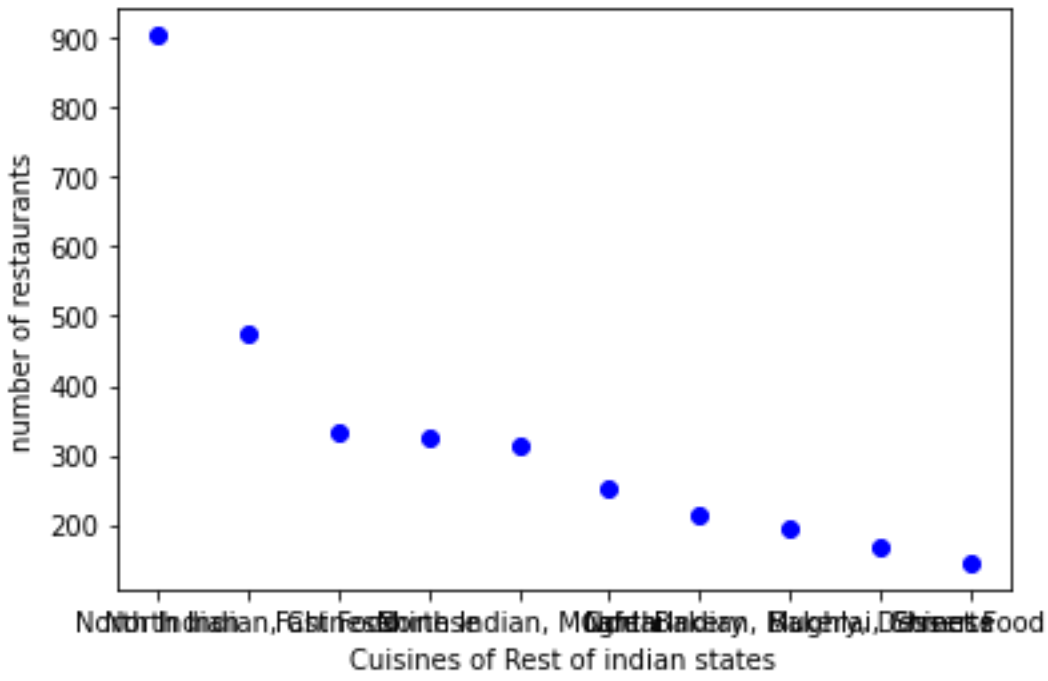




4: Write a short detailed analysis of how cuisine served is different from Delhi NCR to Rest of India. Plot the suitable graph to explain your inference.

Answer: From the above graph we can infer that "North Indian" cusinie is the most popular among restaurants of Delhi_NCR as well as other states. Here I have plotted only those 30 important cusinies which are common in both Delhi-NCR and other states. There are some cusinies present in other states and are not present in any restaurant of Delhi-NCR. After North Indian cusinie we have chinese cusinie with 2448 restaurants in Delhi-NCR and 242 in other states of india. After these two we have fast food with 1866 restaurants in Delhi_NCR and 97 in other states(a huge difference). After this we have Mughlai cusinie in Delhi-NCR with 933 restaurants and 59 in the states other than Delhi-NCR. and there are many more cusinies as show in the graph.

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 t o explain your inference.

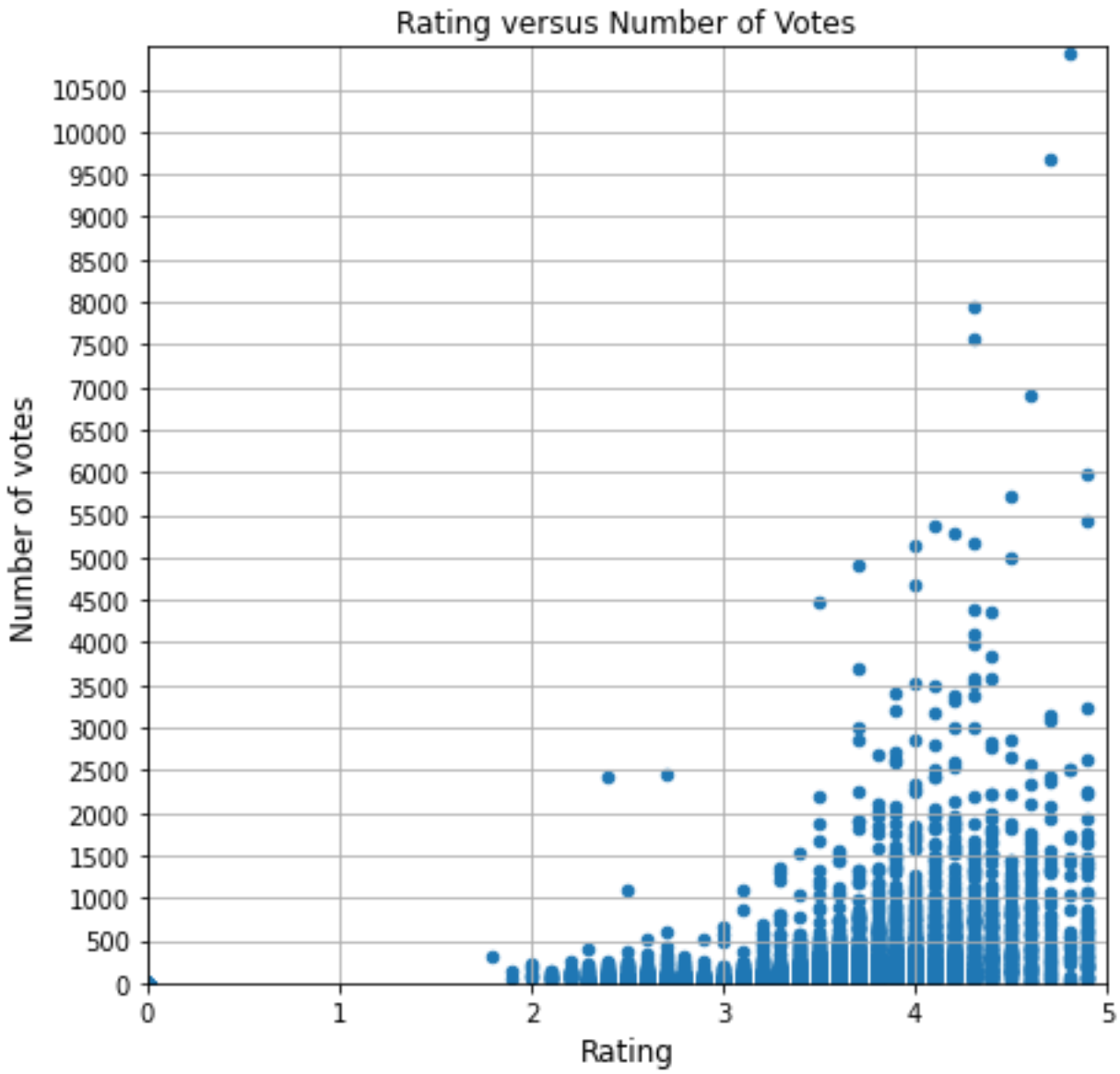
1.Number of Votes given Restaurant

2.Restaurant serving more number of cuisines.

3.Average Cost of Restaurant

4.Restaurant serving some specific cuisines.

1.Number of Votes given Restaurant

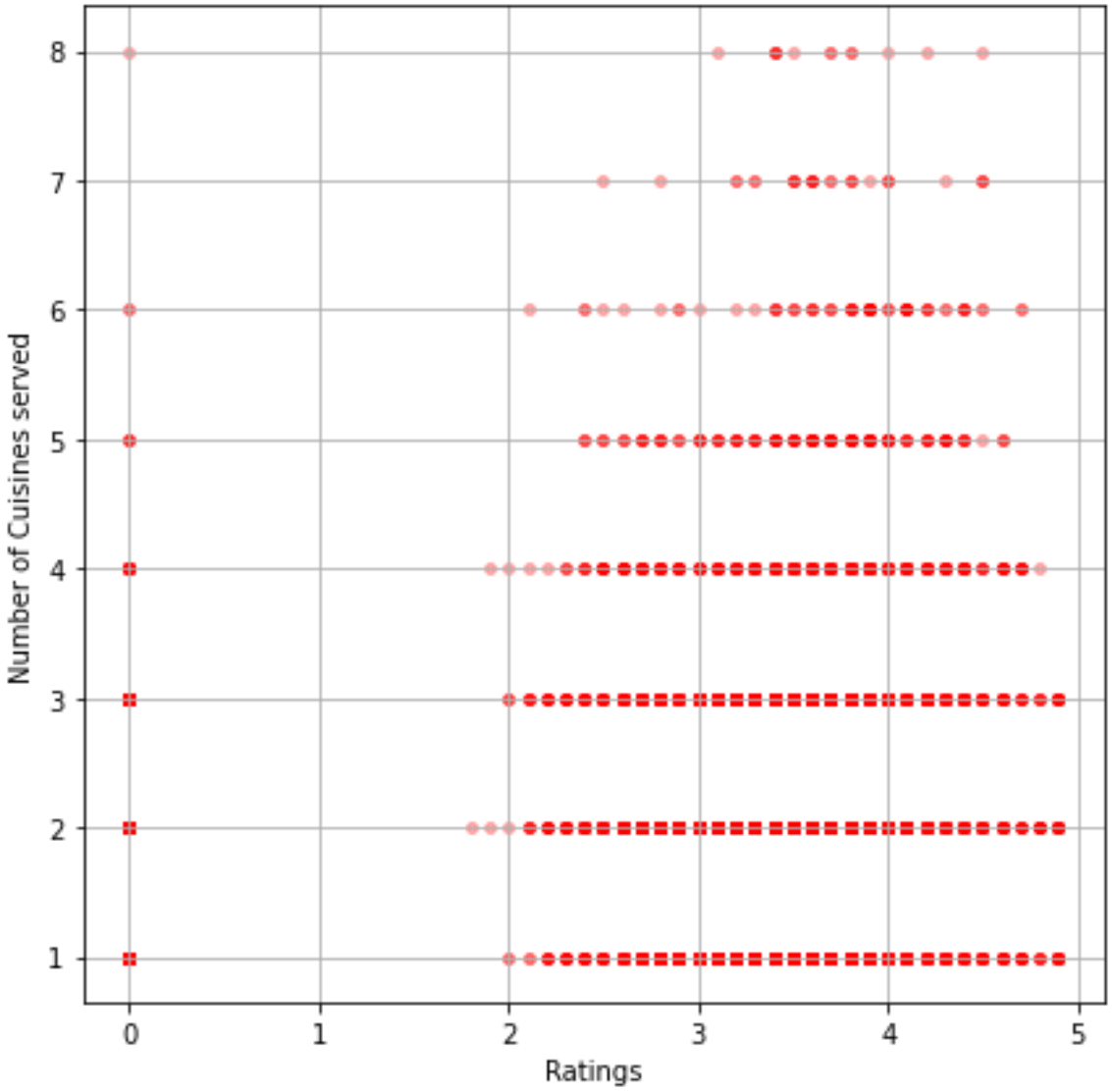


Short Analysis:

As a saw in the above graph that with the increase in no. of votes is directly proportional to increase of rating. So it means that a restaurant having more no. of votes have rating

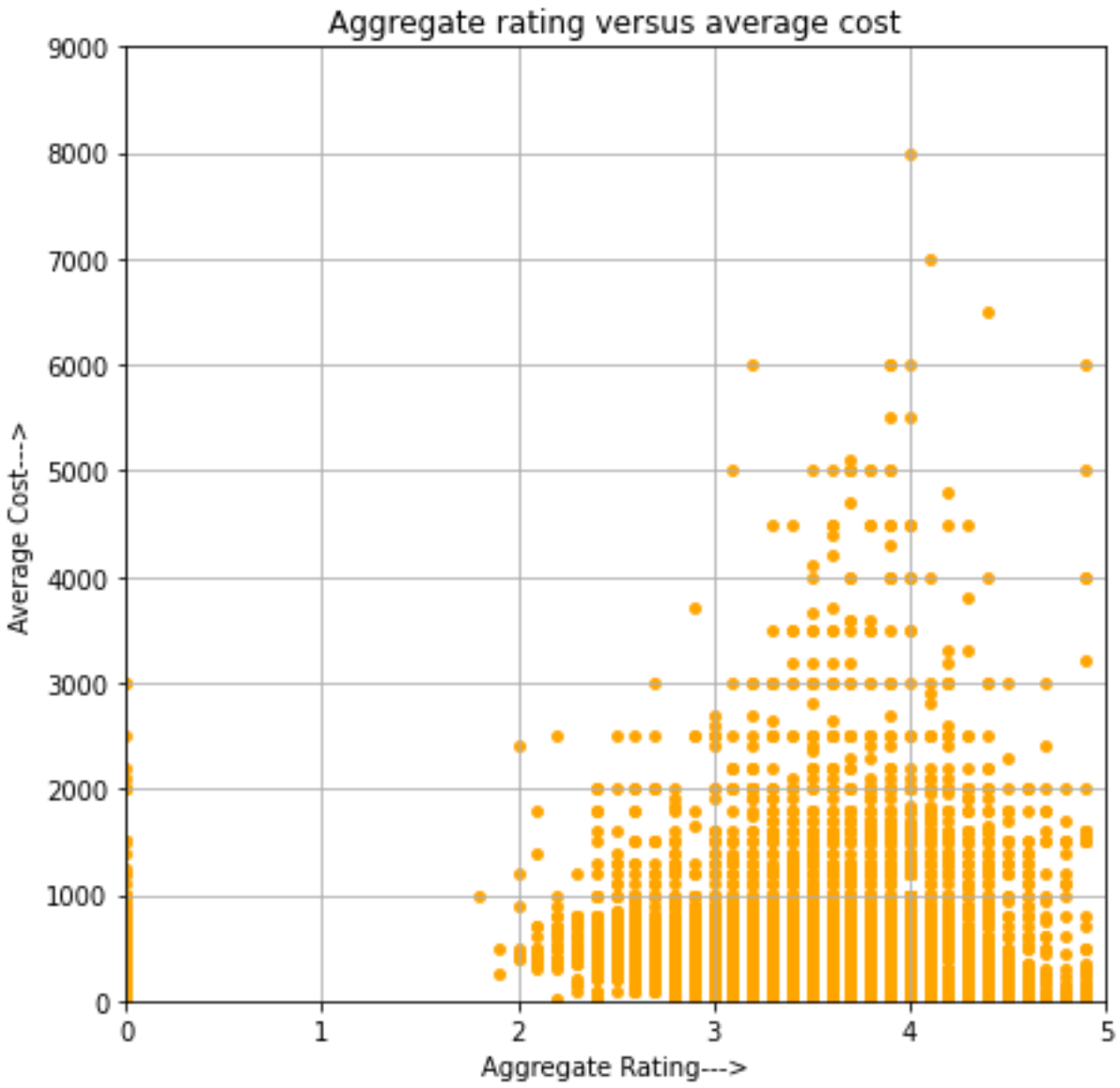
between 4 or 5. Also there are many restaurants having votes between between 1000 and 2000 with very good ratings, that is between 4 and 5.

2.Restaurant serving more number of cuisines.



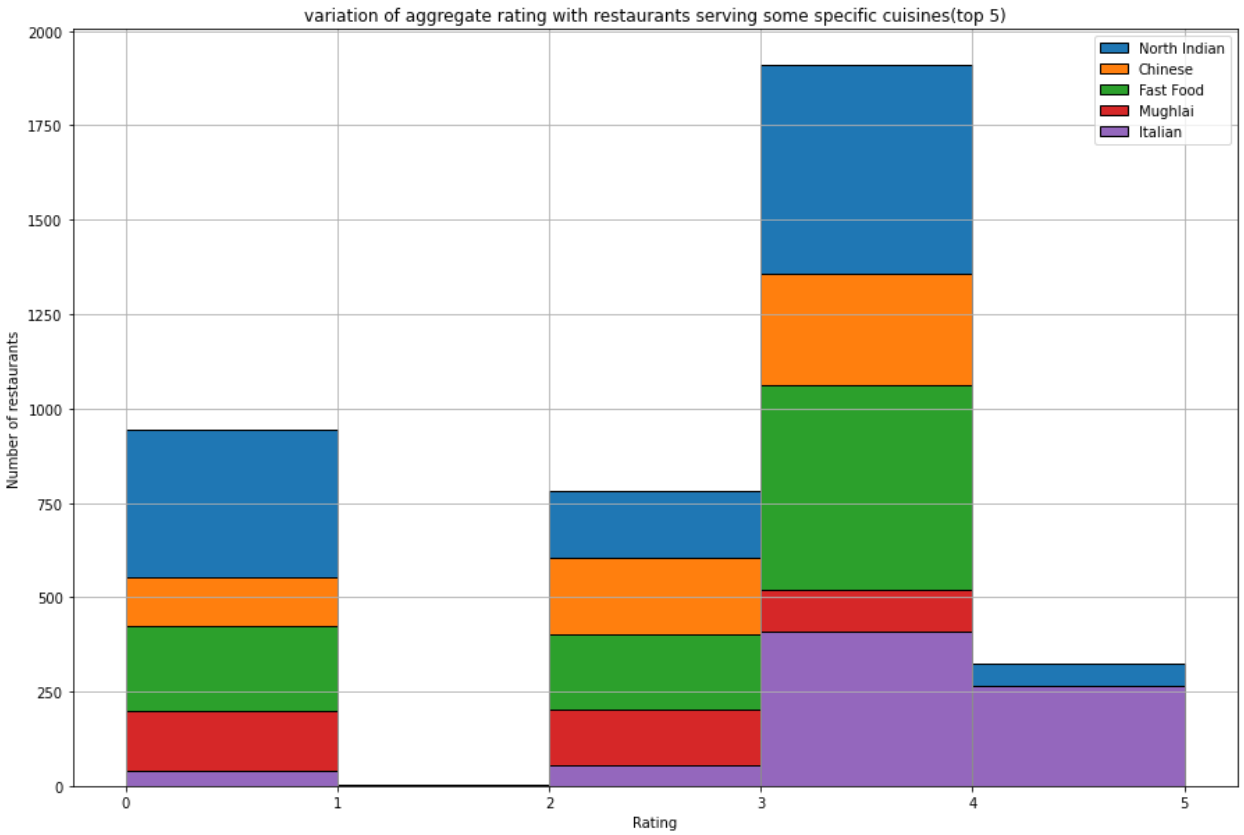
Clearly from the above graph, we can see that restaurents serving more no. of cuisines are not likely to have high or good ratings whether the restaurents having mainly 1 and types of cuisines are more likely to have higher ratings. As we saw in the graph the restaurents serving more than 6 cuisines are not having good rating

3.Average Cost of Restaurant



As we see clearly in the graph that when the average cost is upto 2000 then mostly rating is between 3 to 5 which is good and with increase in the average cost the rating is mostly between 4 to 5 but when the average cost is between 1500 to 2500 then there is slighty decrease in rating of the restaurents

4.Restaurant serving some specific cuisines.



From the above histrogram plot, it is clear that North indian cuisinie is the best rated among all the cuisinies in all the aggregate ranges. After it comes the chinese cuisinie, it is rated between 3 to 4 maximum number of times. Then we have Fast Food, which has been rated between 3 to 4 stars maximum number of times.after these comes mughlai and italian cuisines.it seems like people like the italian cuisinie very much because it has a considerable rating between 3 to 4 and 4 to 5 also

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) .

Answer:
Setor De Clubes Esportivos Sul - 4.9
Pondok Aren - 4.9
Sofitel Philippine Plaza Manila, Pasay City - 4.9
Paia - 4.9
Bishopsgate, City Of London - 4.9
DIFC - 4.9
New Tampa - 4.9
Lexington Street, Soho - 4.9
Caddebostan - 4.9
Deira City Centre Area - 4.9

3.Visualization

1.Plot the bar graph top 15 restaurants have a maximum number of outlets.

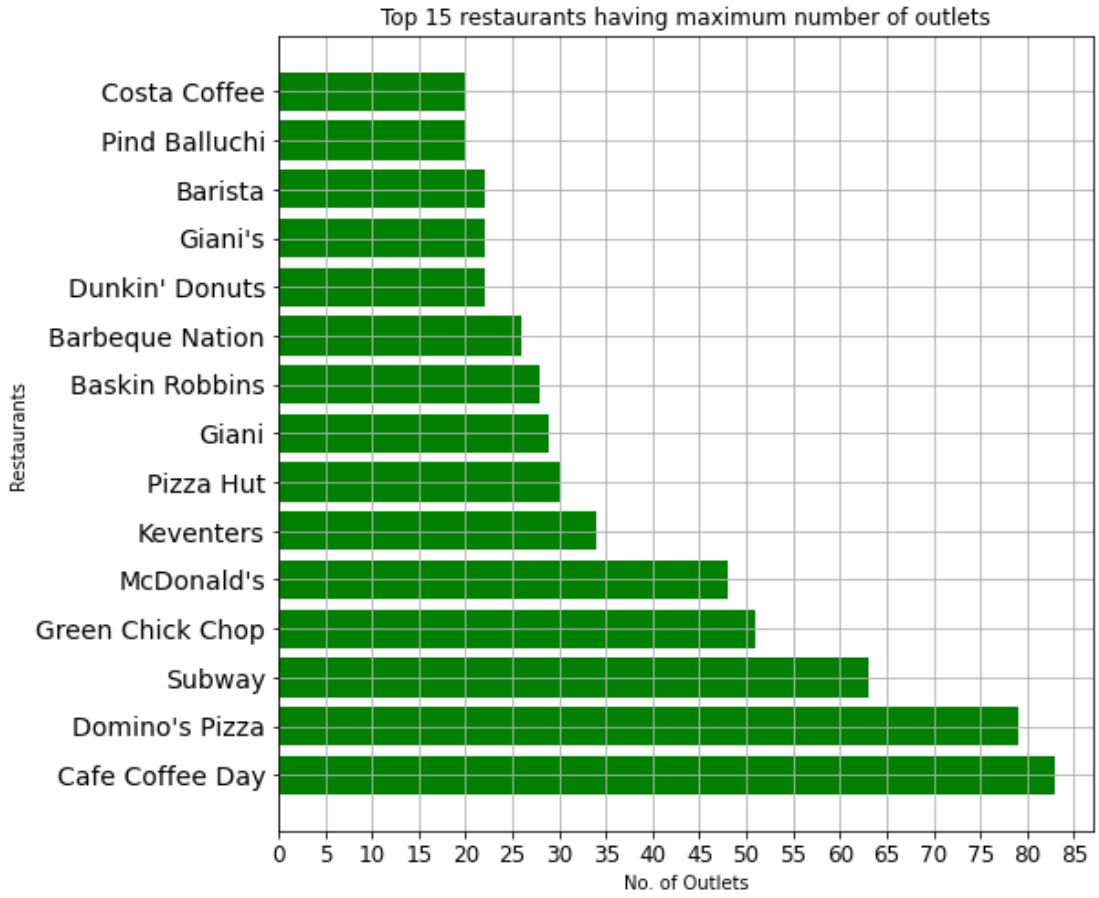
2.Plot the histogram of aggregate rating of restaurant(drop the unrated restaurant).

3.Plot the bar graph top 10 restaurants in the data with the highest number of votes.

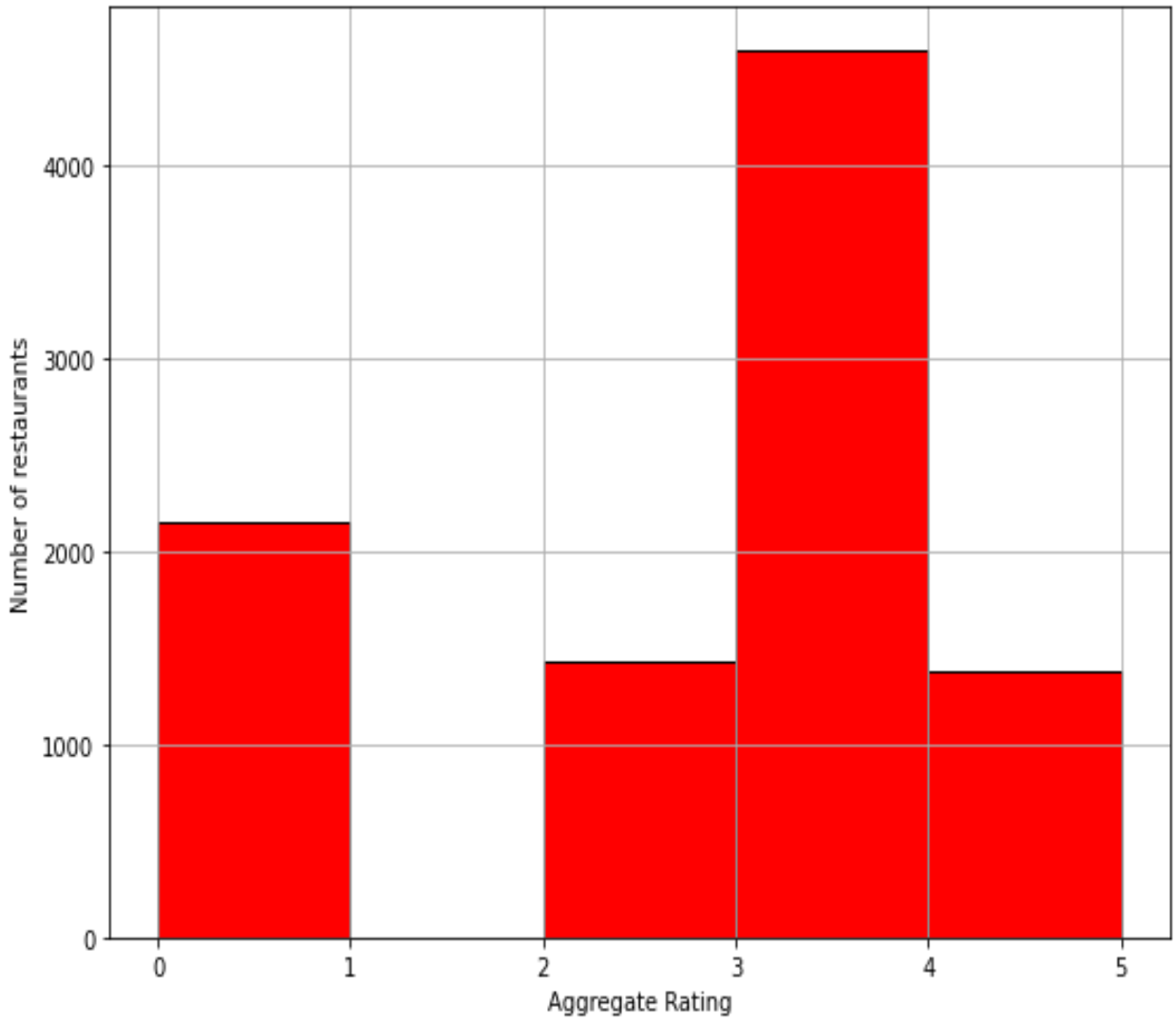
4.Plot the pie graph of top 10 cuisines present in restaurants in the USA.

5.Plot the bubble graph of a number of Restaurants present in the city of India and keeping the weighted restaurant rating of the city in a bubble.

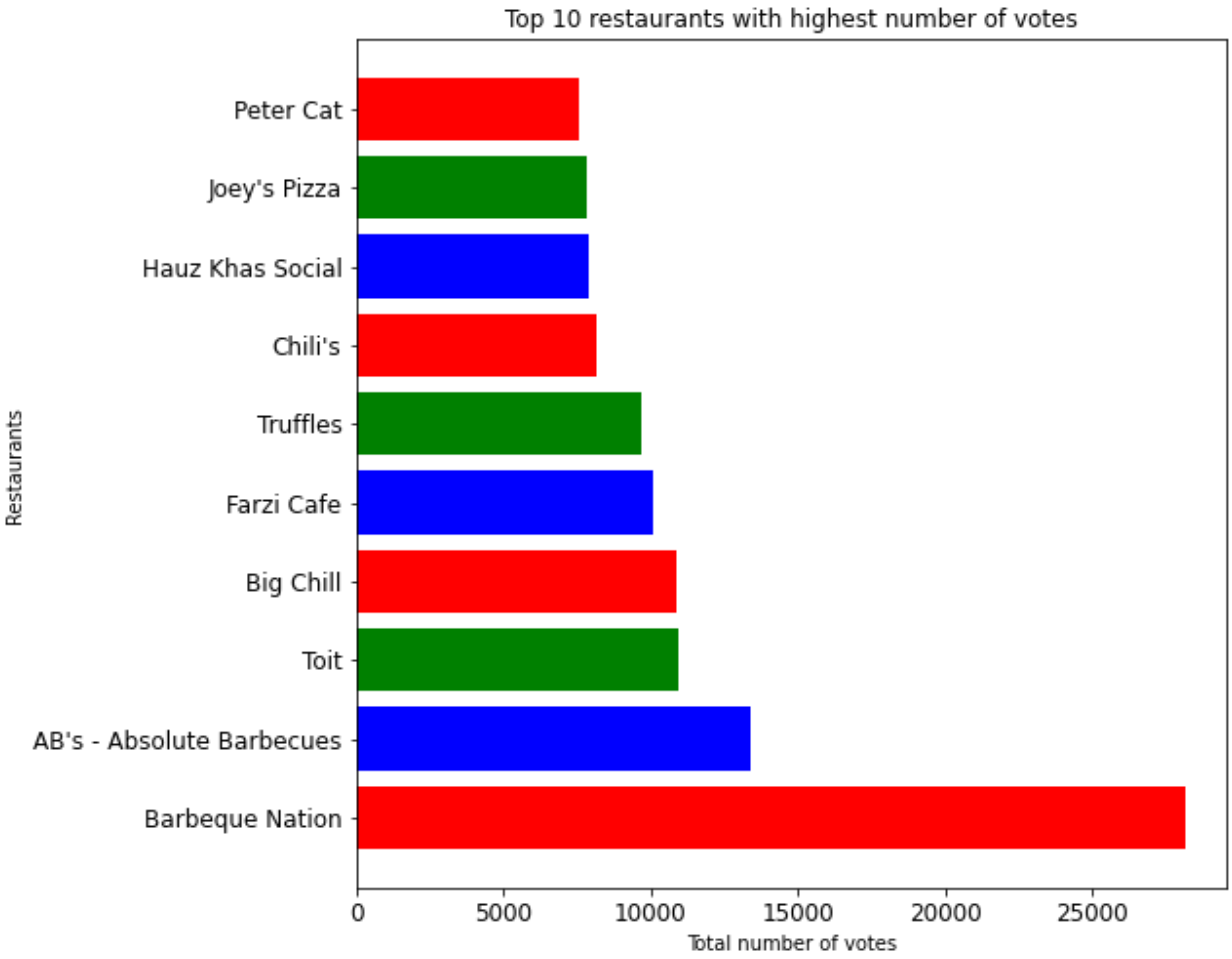
1.Plot the bar graph top 15 restaurants have a maximum number of outlets.



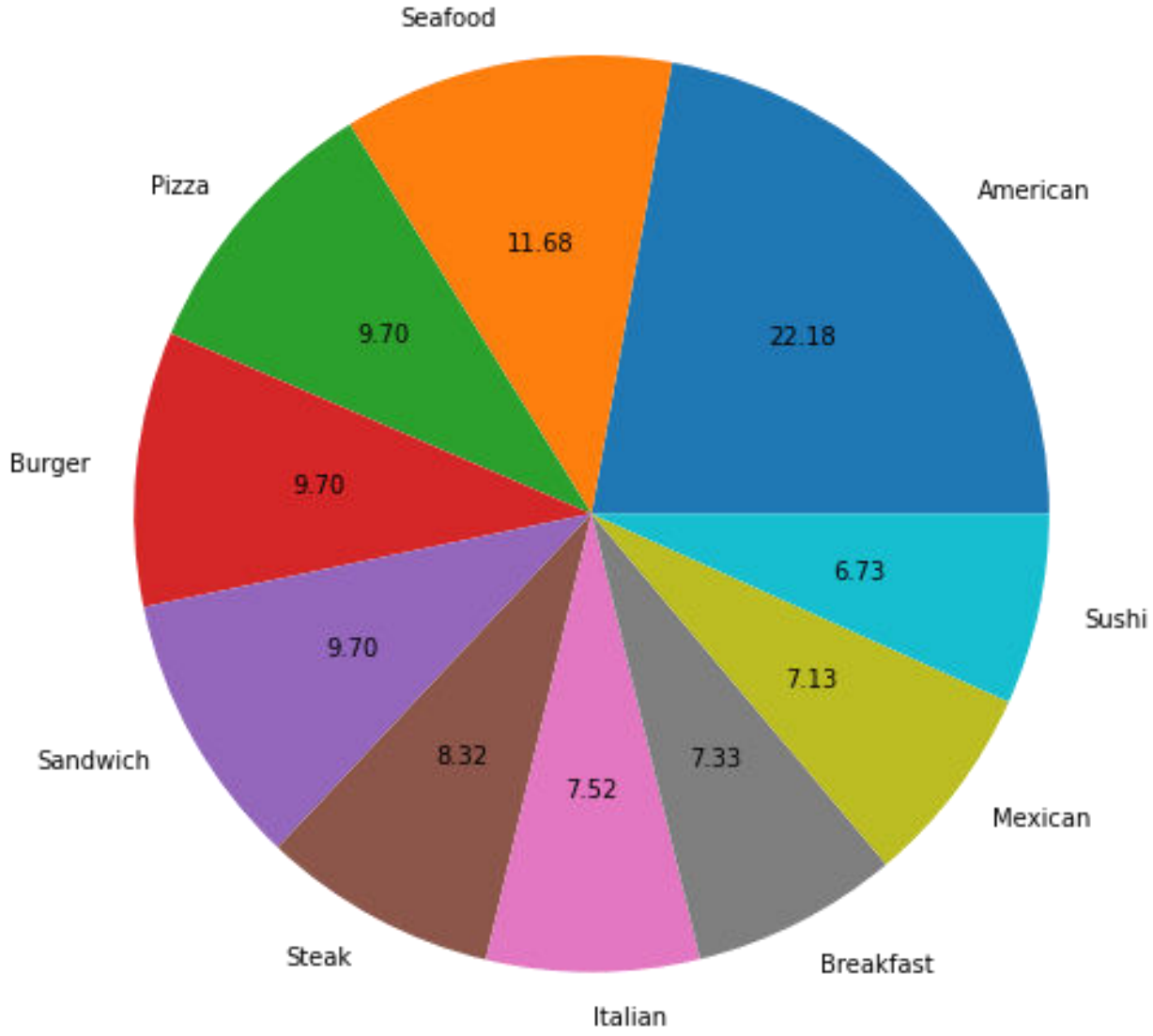
2.Plot the histogram of aggregate rating of restaurant(drop the unrated restaurant).



3.Plot the bar graph top 10 restaurants in the data with the highest number of votes.


Top 10 restaurants with highest number of votes
Peter Cat
Joey's Pizza
Hauz Khas Social
Chili's
Truffles
Farzi Cafe
Big Chill
Toit
AB's - Absolute Barbecues
Barbeque Nation
Restaurants
0
5000
10000
15000
20000
25000
Total number of votes

4.Plot the pie graph of top 10 cuisines present in restaurants in



5.Plot the bubble graph of a number of Restaurants present in the city of India and keeping the weighted restaurant rating of the city in a bubble.