

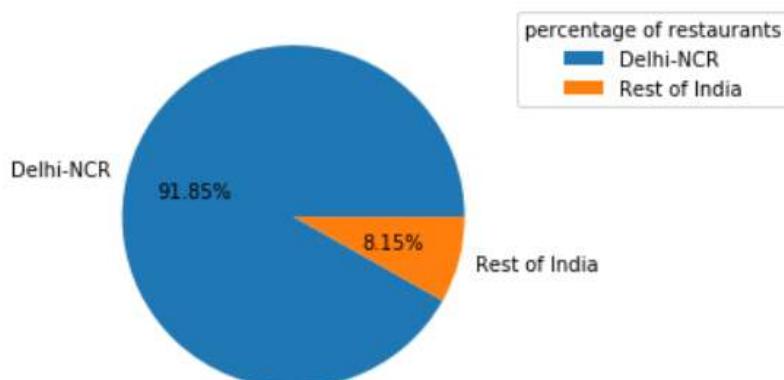
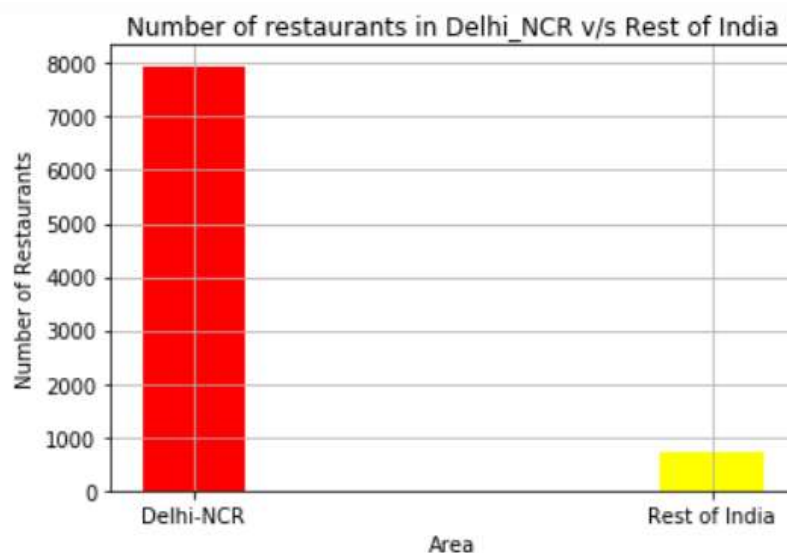
## Zomato Project- Utkarsh Maheshwari

**Question 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.**

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

Delhi-NCR=7947

Rest of India =705



**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.**

Cuisines available in rest of India but not in Delhi-NCR due to lack of data:

German  
Cajun  
BBQ  
Malwani

Cusiniies Not actually present in delhi NCR

German  
Cajun

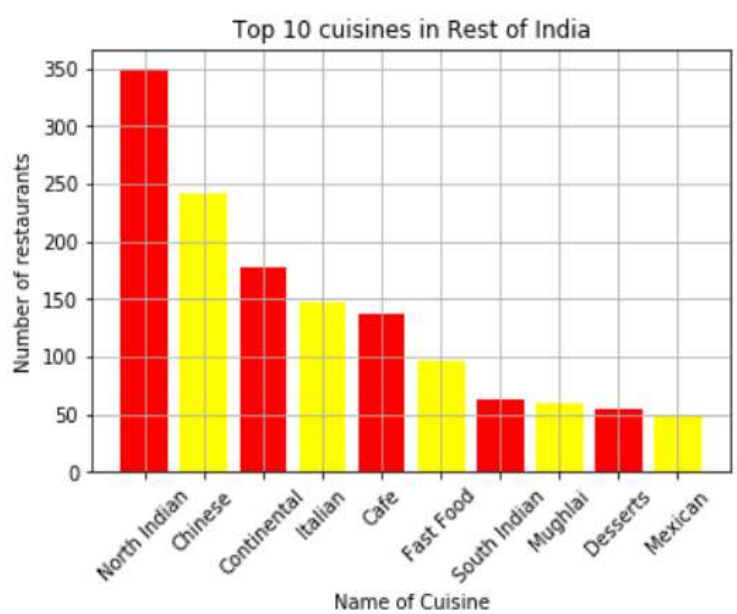
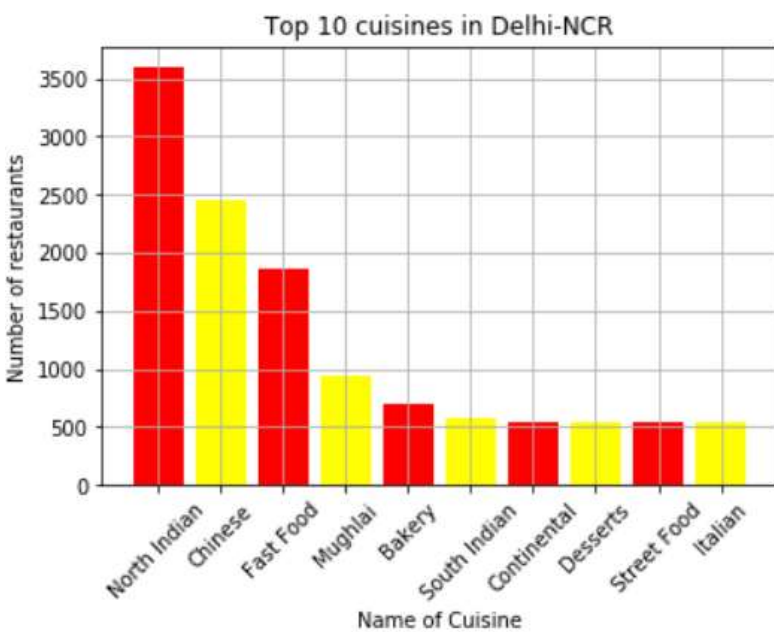
**Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.**

top 10 cuisines served by restaurants in delhi-NCR are

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

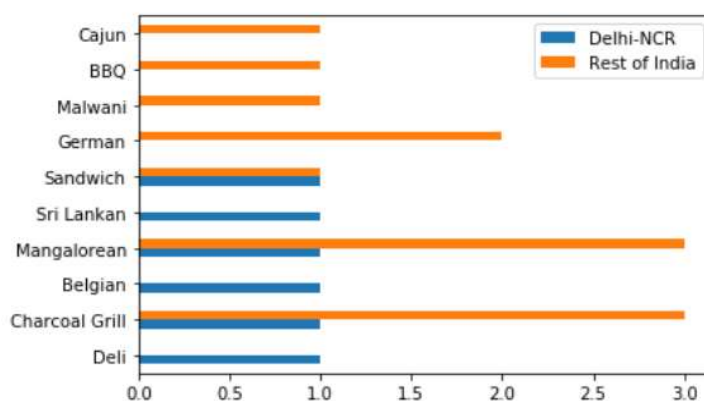
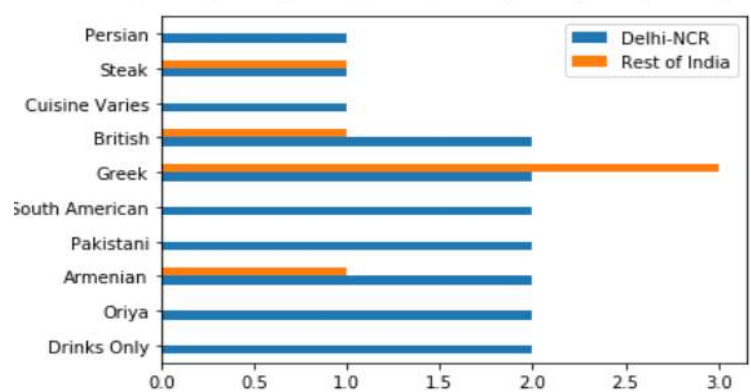
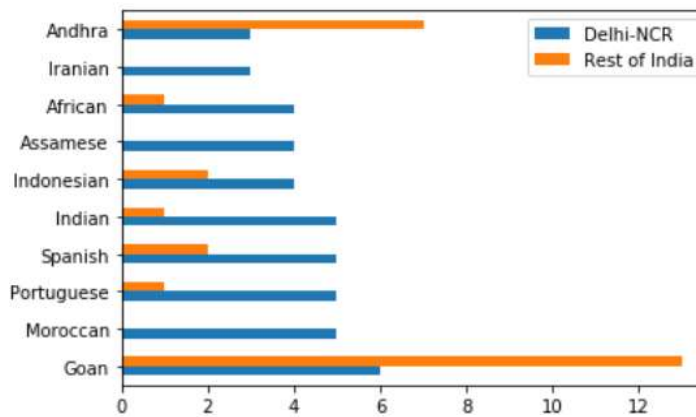
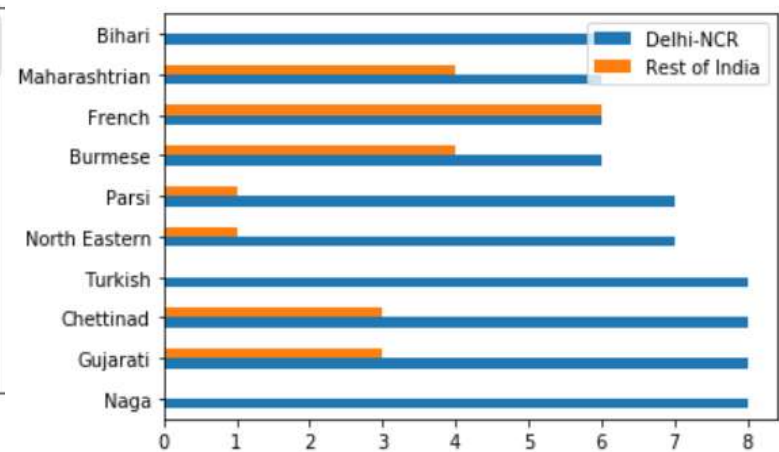
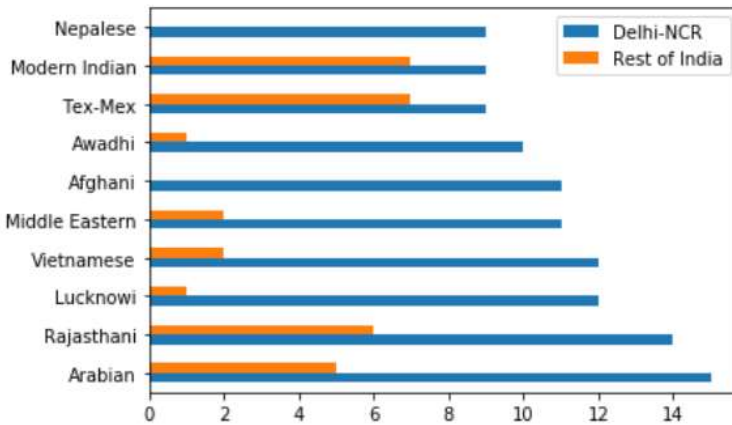
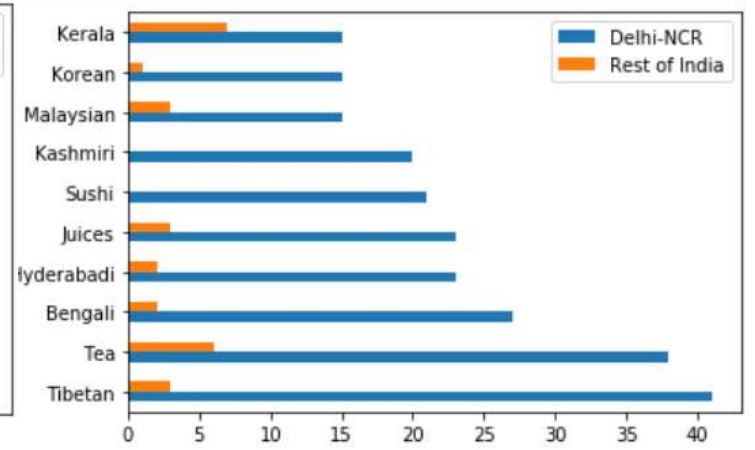
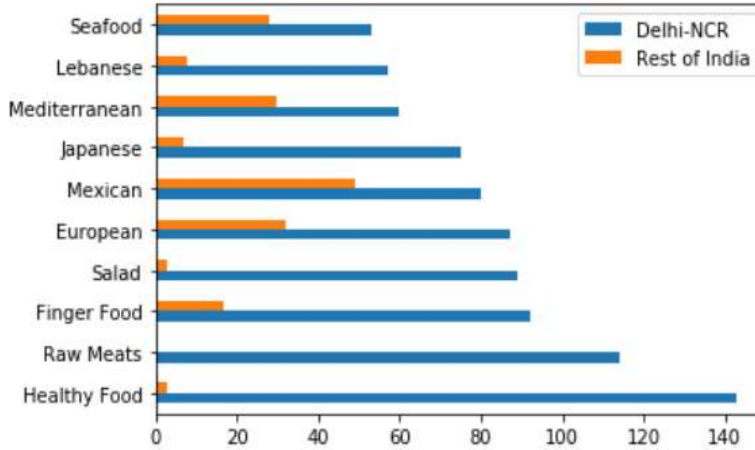
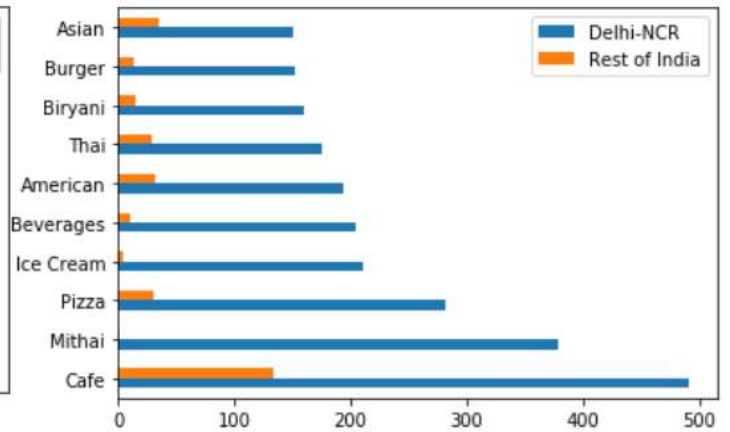
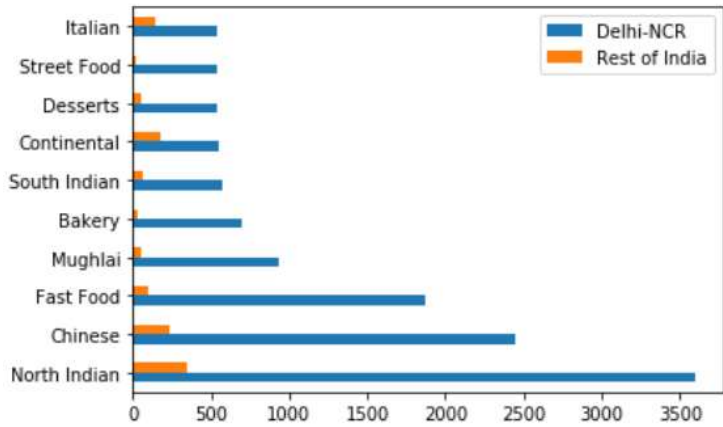
top 10 cuisines served by restaurants in rest of India are

North Indian 349  
Chinese 242  
Continental 177  
Italian 147  
Cafe 136  
Fast Food 97  
South Indian 62  
Mughlai 59  
Desserts 55  
Mexican 50



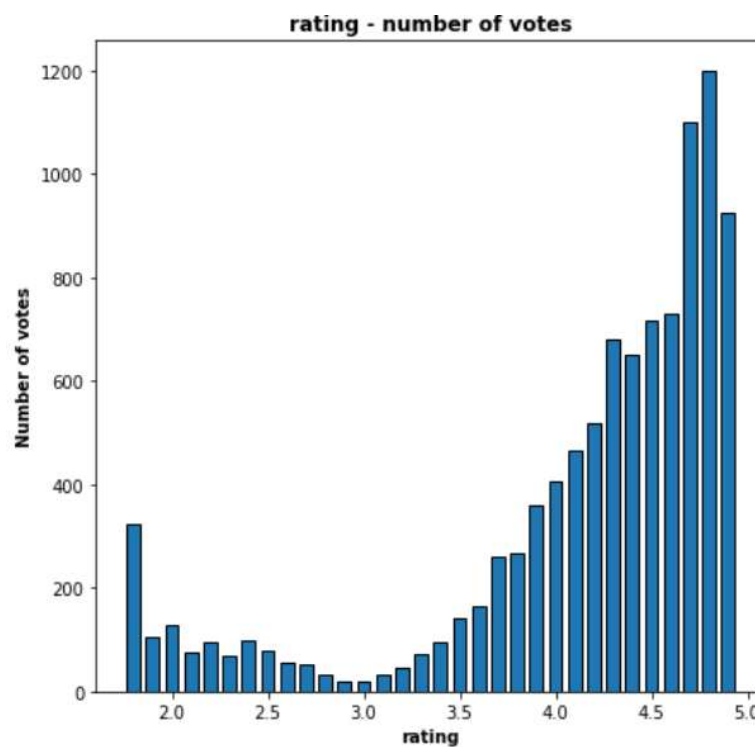
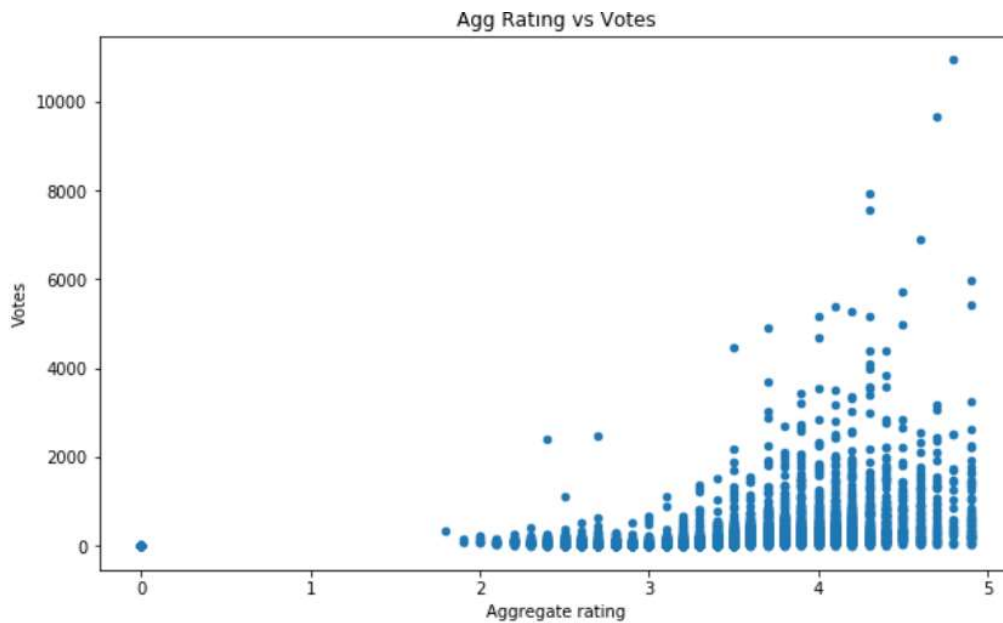
**Write a short detailed analysis of how cuisine served is different from Delhi NCR to Rest of India. Plot the suitable graph to explain your inference.**

1. Cuisines present in rest of India but not in Delhi-NCR-German, Cajuan, BBQ, Malwani
2. North Indian and Chinese are top served cuisines in both Indian and delhi-NCR
3. More variety of cuisine are present in Delhi-NCR as compared to rest of India like Deli ,Iranian ,Sri Lankan ,Sushi ,Kashmiri ,Belgian ,Assamese ,Raw Meats ,Cuisine Varies ,Bihari ,South American ,Turkish ,Afghani ,Persian ,Oriya ,Drinks Only ,Moroccan ,Nepalese ,Pakistani



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

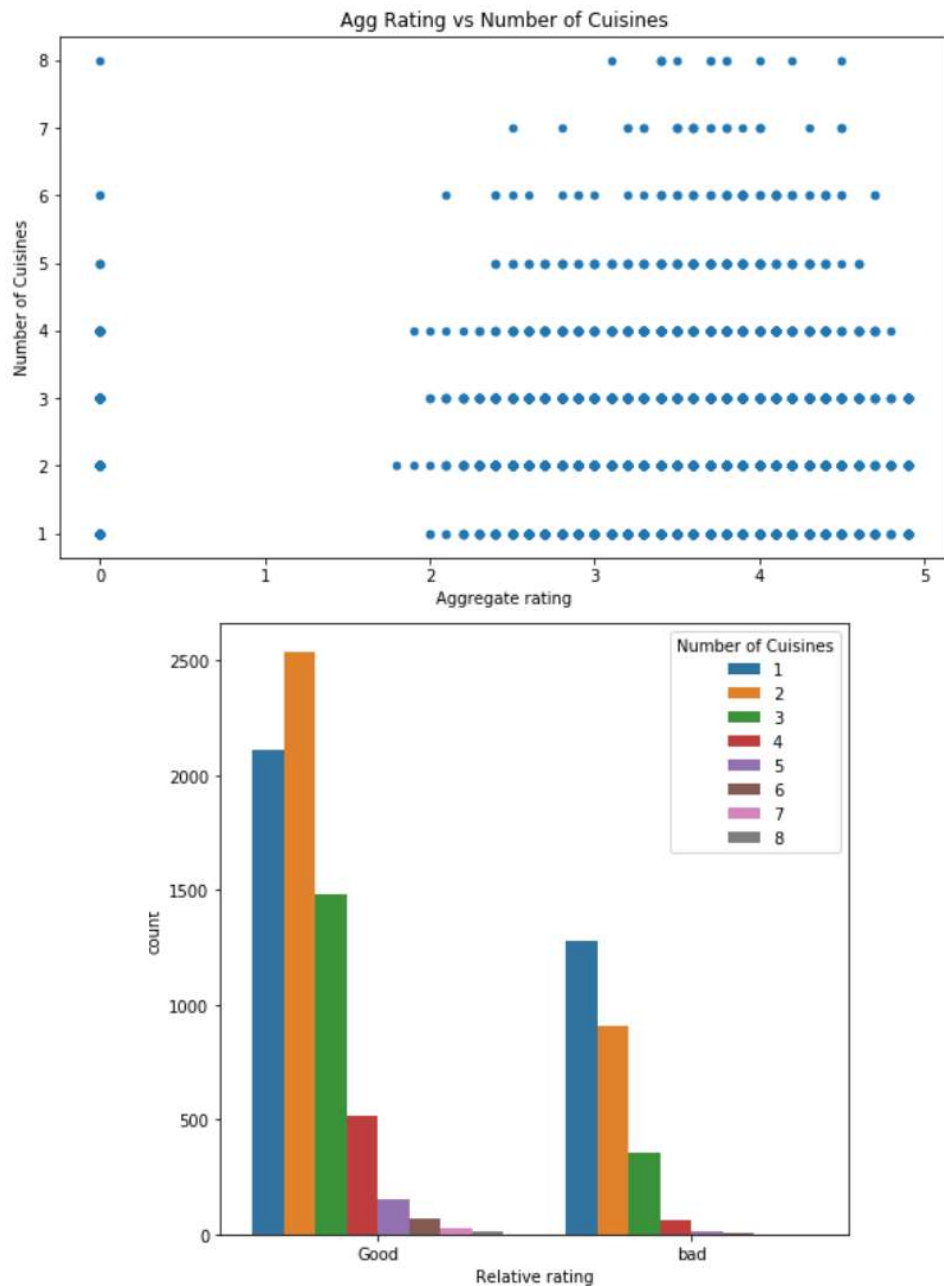
### Votes v/s rating



Observtions:

1. Pearson's correlation : 0.4094227523124269
2. As the number of votes increses rating also increase
3. Restaurants with less rating have less number if votes

## Number of Cuisines v/s rating



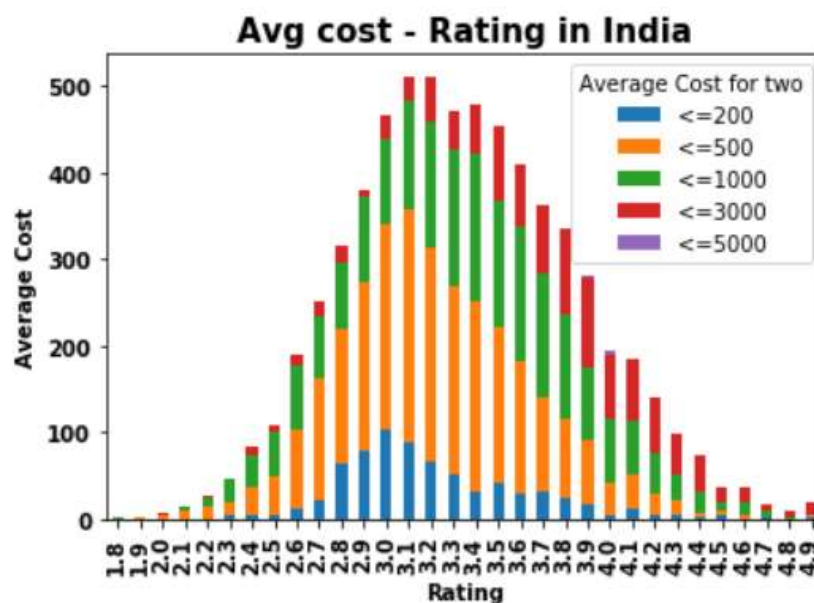
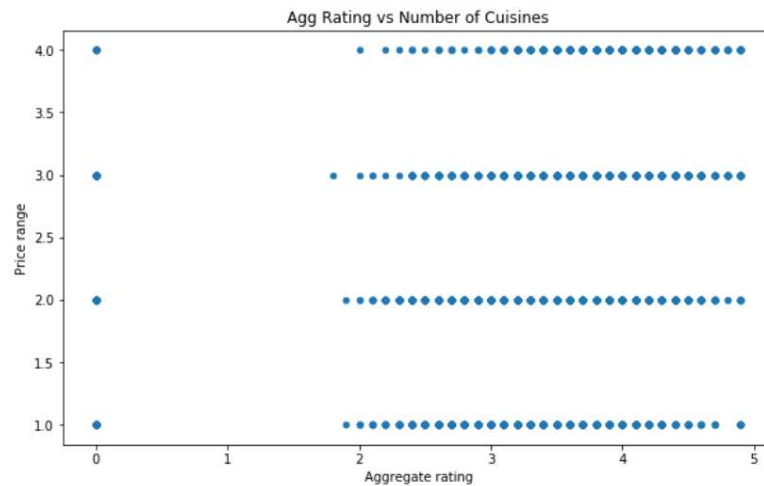
Observations:

1. For restaurants serving 2 cuisines majority have good rating
2. Restaurants serving more than 4 cuisines even though are less in number but they have good rating
3. Certainly restaurants serving multiple cuisines are better than restaurants serving single cuisine.

## Average Cost v/s rating

We will have to factor in currency because some currency might skew the data.

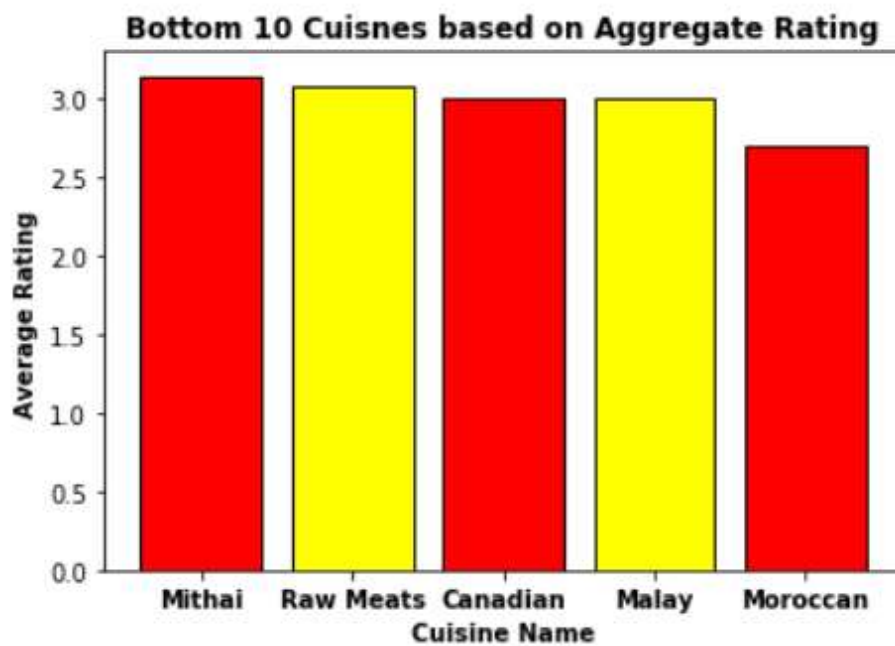
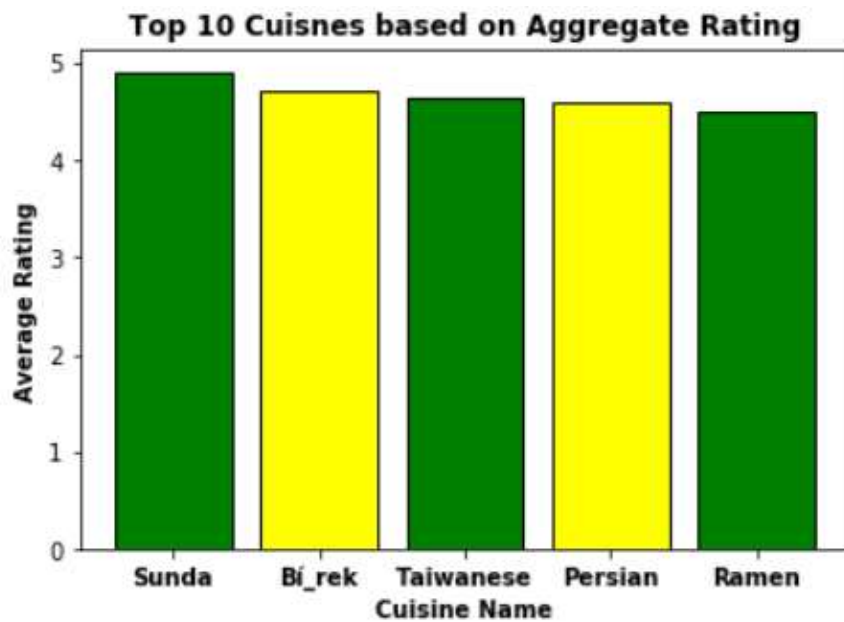
Therefore graph is drawn between rating and price range.



Observations:

1. Restaurants with average cost less than 200 are rated less than 4
2. Restaurants in range of 200-500 are distributed all over the rating
3. Most of the restaurants with average cost more than 3000 are rated high

### Restaurant serving some specific cuisines.



Observations:

1. Restaurants serving Sunda, Bi\_rek, Taiwanese, Persian, Ramen are high rated
2. Restaurants serving Mithai, Raw meats, Canadian, Malay and Mooccan are rated less.

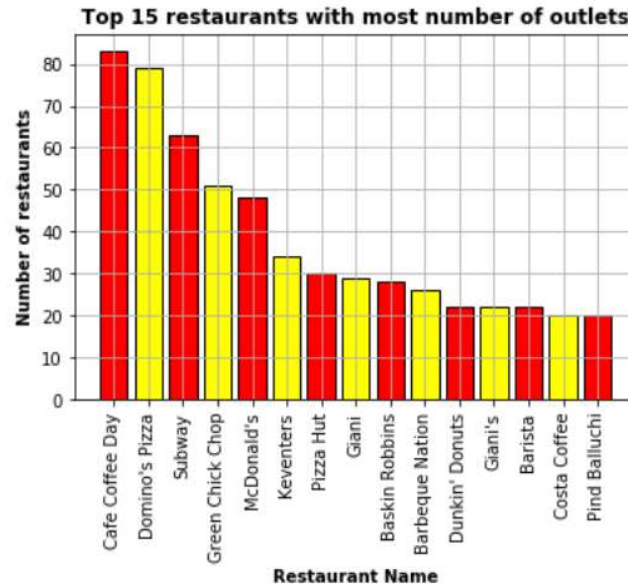


## Top 10 localities by weighted ratings

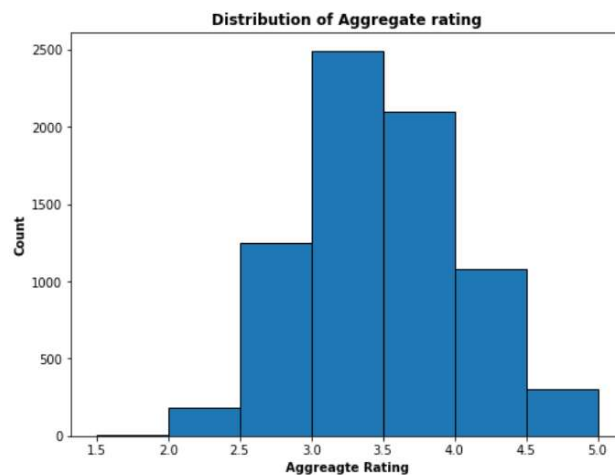
Old Dutch Hospital, Fort 4.9  
The Milk District 4.9  
Kenwood 4.9  
Aminabad 4.9  
Deira City Centre Area 4.9  
Lexington Street, Soho 4.9  
Venetian Village, Al Maqtaa 4.9  
DIFC 4.9  
Paia 4.9  
City and Suburban 4.9

## **Visualisation**

### Top 15 restaurants by number of outlets:

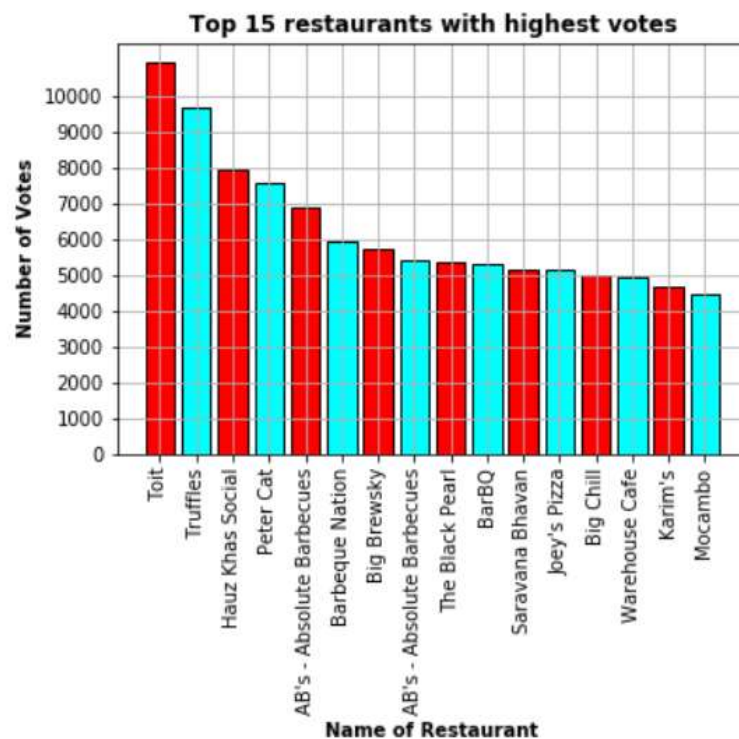


**Plot the histogram of aggregate rating of restaurant( drop the unrated restaurant**

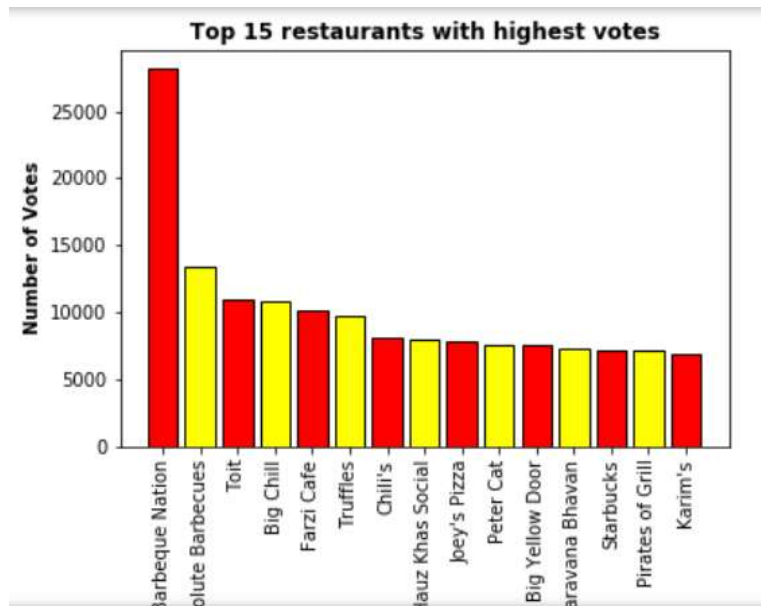


**Plot the bar graph top 10 restaurants in the data with the highest number of votes**

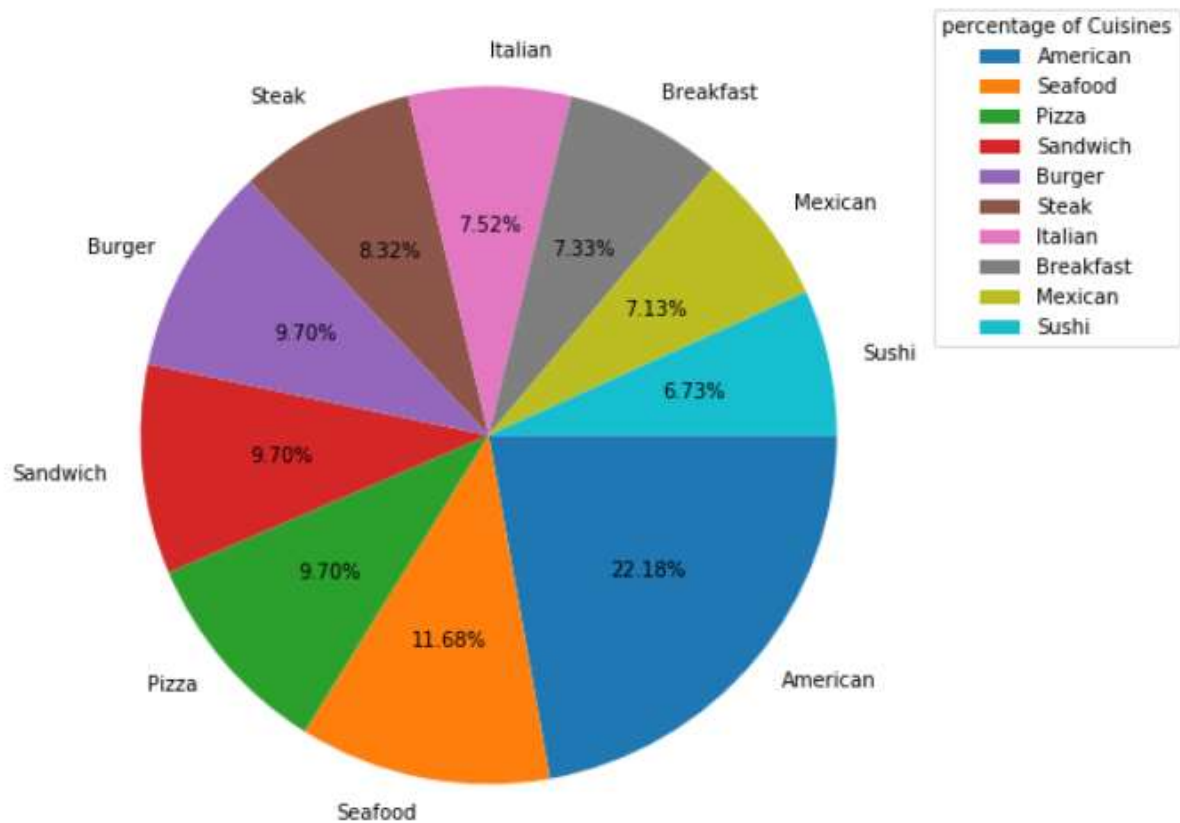
**Case-1: considering different outlets of same chain as different restaurants**



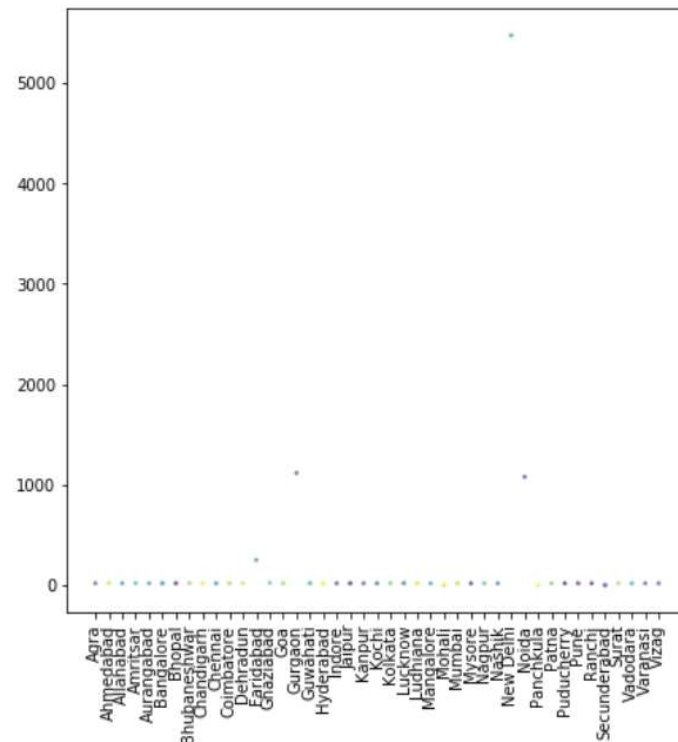
**Case 2: combining total votes of all outlets of restaurants**



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



**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.**



**Case 1: multiplying size by 100 for visible difference**

