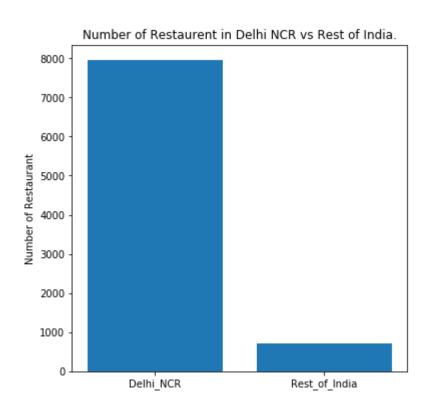
# **Plots And Explanations**

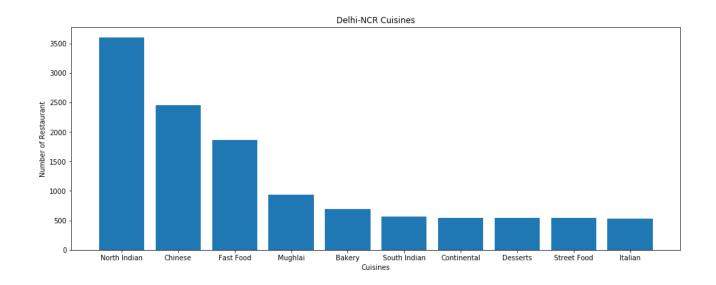
(A) The dataset is highly skewed toward the cities included in Delhi-NCR. So, we will summarise all the other cities in Rest of India while those in New Delhi, Ghaziabad, Noida, Gurgaon, Faridabad to Delhi-NCR. Doing this would make our analysis turn toward Delhi-NCR v Rest of India.

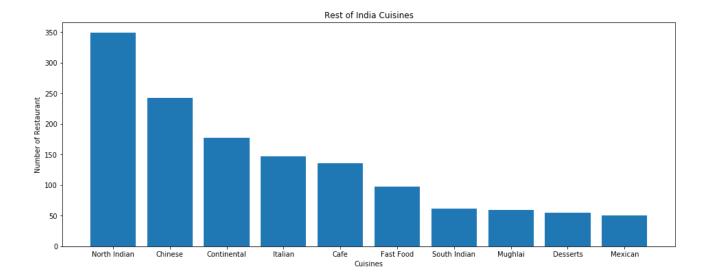
# 1. Plot the bar graph of number of restaurants present in Delhi NCR vs Rest of India.



- O It is the graph of the number of restaurants available in Delhi NCR and Rest of India.
- O In the Delhi NCR the five cities comes under are New Delhi, Ghaziabad, Noida, Gurgaon, Faridabad.
- As we see from the graph that in Delhi NCR there are so many number of restaurants compare to rest of the India.
- O So from graph we see that maximum Zomato restaurant present in Delhi NCR

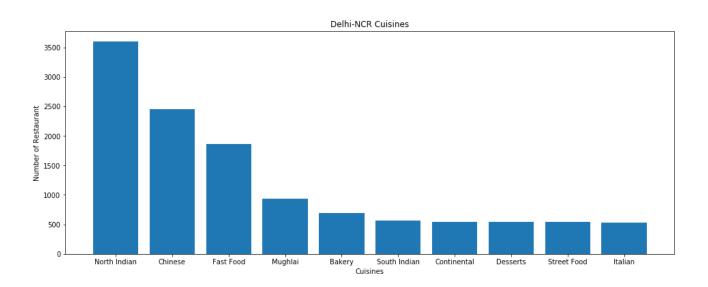
# 3. Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.

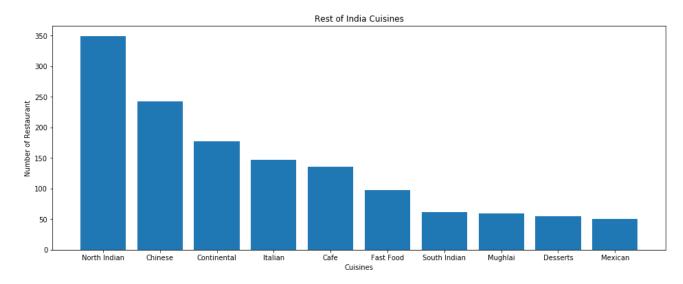




- O 1<sup>st</sup> graph for top 10 cuisines served maximum number of times in Delhi NCR and 2<sup>nd</sup> for top 10 cuisines served maximum number of time in Rest of India.
- O North India is at top position in both and Chinese is at 2<sup>nd</sup> position. And at 3<sup>rd</sup> position there is Fast food in Delhi NCR and Continental in India.
- And most of the cuisines are same but the order is change.
- O Bakery is at 5<sup>th</sup> position in Delhi NCR and not present in Rest of India.
- O Mughlai is at 4<sup>th</sup> position in Delhi NCR and fall down 8<sup>th</sup> position in Rest of india.

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.





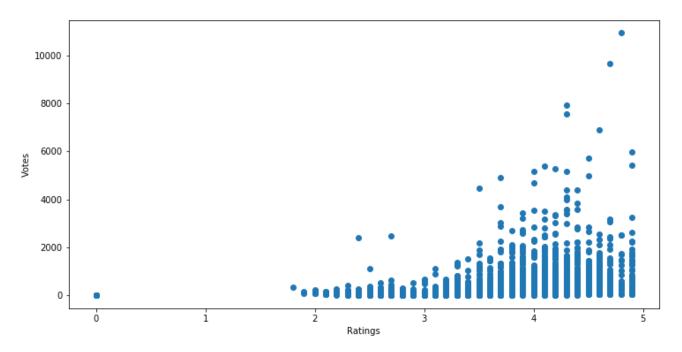
# **Explanations**

O 1<sup>st</sup> graph for top 10 cuisines served maximum number of times in Delhi NCR and 2<sup>nd</sup> for top 10 cuisines served maximum number of time in Rest of India.

- O North India is at top position in both and Chinese is at 2<sup>nd</sup> position. And at 3<sup>rd</sup> position there is Fast food in Delhi NCR and Continental in India.
- And most of the cuisines are same but the order is change.
- O Mughlai is at 4<sup>th</sup> position in Delhi NCR and fall down 8<sup>th</sup> position in Rest of India.
- And most of the cuisines are same but the order is change.

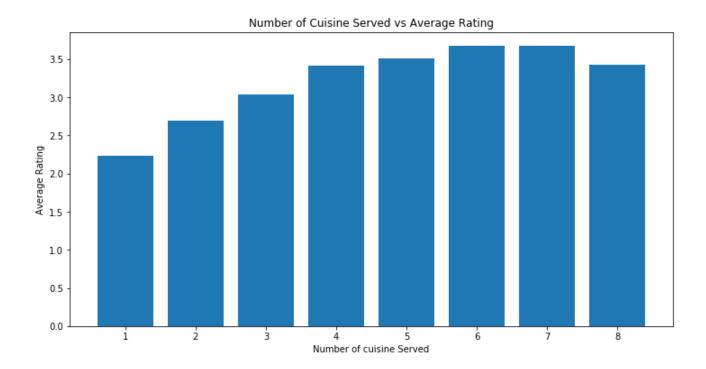
- (B)User Rating of a restaurant plays a crucial role in selecting a restaurant or ordering the food from the restaurant.
- (B.1) Write a short detail analysis of how the rating is affected by restaurant due following features: Plot a suitable graph to explain your inference.

#### 1. Number of Votes given Restaurant



- O It is the graph between the vote's vs rating of all restaurants.
- As we see in the graph that as the number of votes is increasing to a restaurant then the correspondingly its rating is also increases.
- **O** So, more the number of votes more is the rating of the restaurant.
- O But most data lies in votes 0 to 2000 and rating 3 to 5

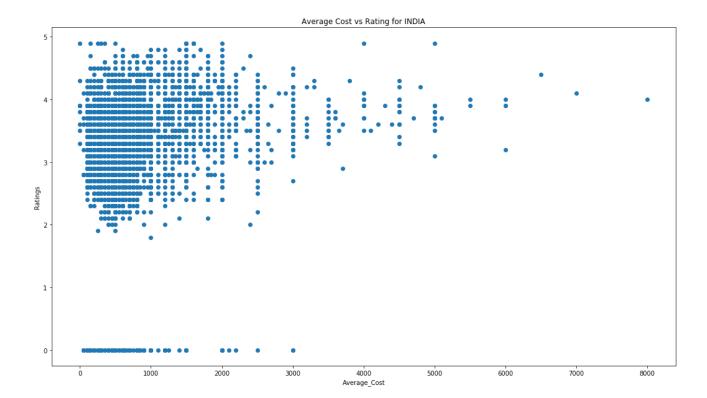
#### 2. Restaurant serving more number of cuisines.

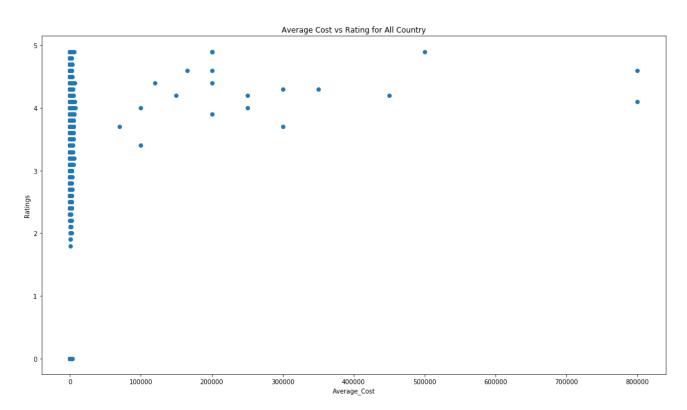


# **Explanations**

- It is the graph between the rating vs number of cuisines any restaurant has.
- We plot a graph to see is the rating depends upon the number of cuisines.
- So, from this plot we see that things that how the rating is depend upon the number of cuisines each restaurant have.

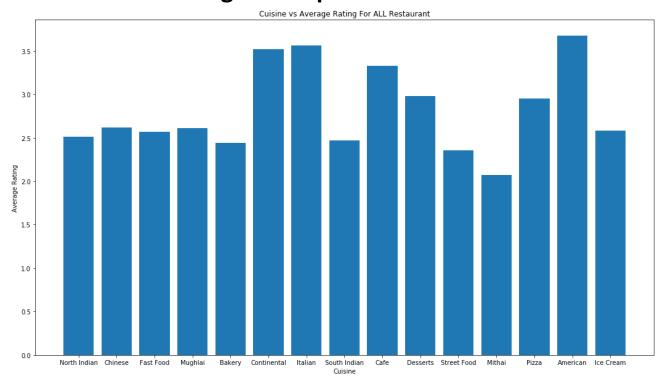
#### 3. Average Cost of Restaurant





- O 1<sup>st</sup> graph is between Average cost and rating for India and second for Delhi
- O By the graph it we conclude that most of the restaurant having rating 2.5 to 5 and cost 0 to 2000.

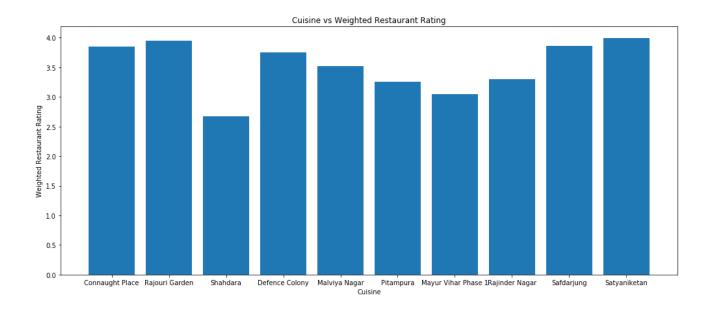
#### 4. Restaurant serving some specific cuisines.



- These are top 15 cuisines that served maximum number of time all the restaurant.
- Calculated average rating for top cuisines and most of the cuisines having good average rating and American cuisines is at top.

# (B.2) Find the weighted restaurant rating of each locality and find out the top 10 localities with more weighted restaurant rating?

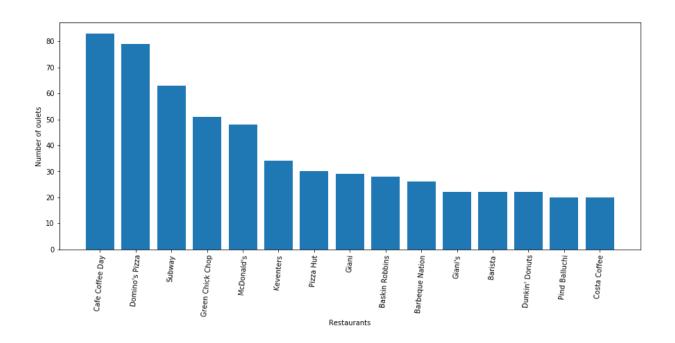
1. Weighted Restaurant Rating= $\Sigma$  (number of votes \* rating) /  $\Sigma$  (number of votes).



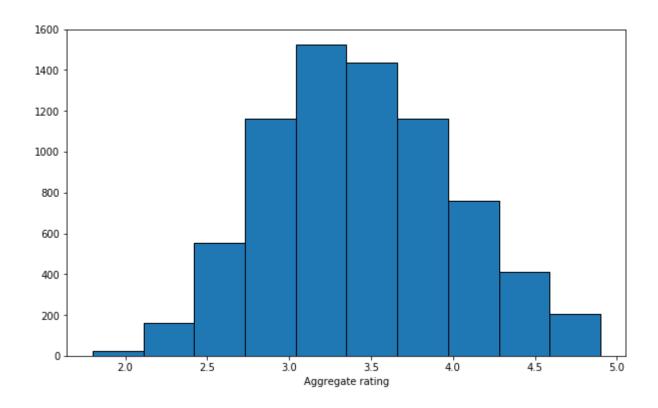
- Calculated weighted restaurant rating for all the locality Draw graph for top 10 in each.
- By graph we can see that top 10 locality having good weighted restaurant rating.

## (C) Visualization

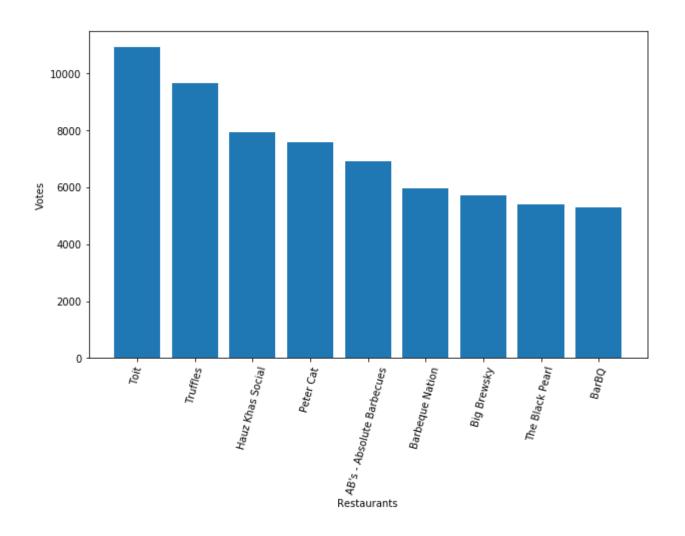
1. Plot the bar graph top 15 restaurants have a maximum number of outlets.



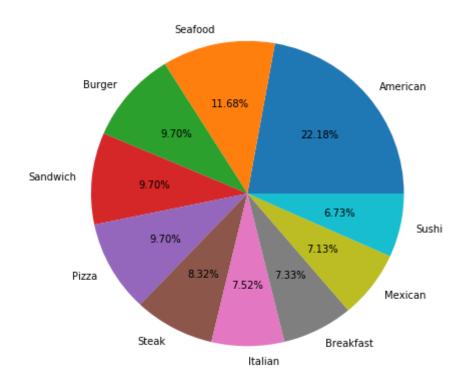
- These are the top 15 restaurant that have maximum outlets.
- Café coffee is at 1<sup>st</sup> position and have more than 80 outlets.
- 2. Plot the histogram of aggregate rating of restaurant( drop the unrated restaurant).



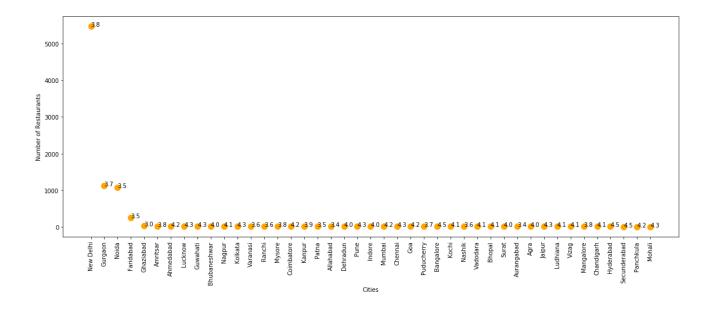
- O Histogram graph between aggregating rating and number of votes.
- Restaurant having Aggregate rating 3 to 4 have more number of votes.
- 3. Plot the bar graph top 10 restaurants in the data with the highest number of votes.



- **O** It is the graph between top 10 restaurants having highest number of votes.
- As we see from the graph Toit is the restaurant having maximum number of votes.
- 4. Plot the pie graph of top 10 cuisines present in restaurants in the USA.



- O It is pie chart representing top cuisines in USA.
- O It is representing the top cuisines means which is available in more number of restaurants.
- As we see from the pie chart that American cuisine at highest in the pie chart which means this cuisine is available in more number of restaurants.
- 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.



- **O** It is the graph between the number of cities vs the number of restaurants.
- O In this graph represent each city of India have how many number of restaurants in it.
- O So from graph we observe that New Delhi has the maximum number of restaurants.
- O And it's the Bubble Graph.
- O In which I put all the weighted restaurant rating in the bubble.