

ZOMATO API PROJECT

IMPORTING MODULES AND LIBRARIES

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# Getting Count for Rest of INDIA Restaurants
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# Getting Count for Delhi NCR Restaurants
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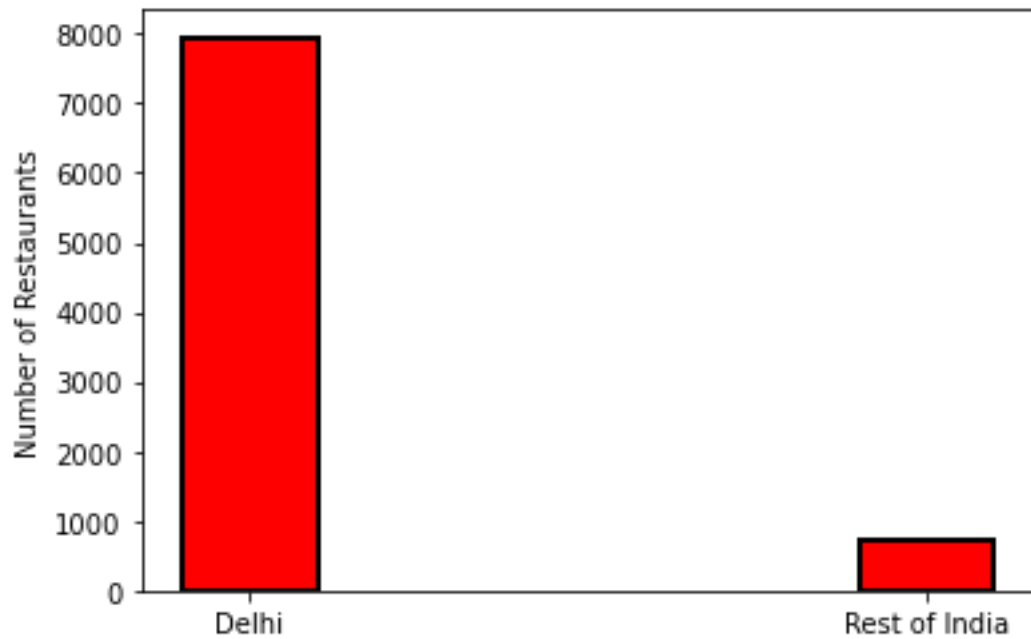
Plotting the bar graph of number of restaurants present in Delhi NCR vs Rest of India.

```
# Getting Count for Rest of INDIA Restaurants
```

```
# Getting Count for Delhi NCR Restaurants
```

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# Result
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BAR GRAPGH of number of restaurants in Delhi NCR vs Rest of India.



The number of restaurants present in Delhi are 7947 and in Rest of India are 705

Finding cuisines which are not present in restaurant of Delhi NCR but present in rest of India.

List of Cuisines in Delhi NCR

List of Cuisines in Rest of INDIA

#Checking using Zomato API whether this cuisines are actually not served in restaurants of Delhi-NCR.

Cuisines that are not served in Delhi NCR region according to dataset

Malwani

German

BBQ

Cajun

Results from ZOMATO API-the cuisines are present in DELHI NCR but not in the zomato.csv

Afghan

BBQ

Bar Food

Brazilian

Bubble Tea

Cantonese

Charcoal Chicken

Coffee

Egyptian

Ethiopian

Frozen Yogurt

Grocery

Himachali

Hot dogs

Israeli

Jamaican

Kebab

Mishti

Momos

Odia

Oriental

Paan

Panini

Pasta

Poké

Roast Chicken

Rolls

Russian

Sindhi

Singaporean

Tamil

Wraps

These are the actual cuisines are actually not served in Delhi NCR (according to Zomato API) and served in rest of india

Malwani

German

Cajun

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

Top ten Delhi NCR Cuisines

Getting top ten cuisines in Delhi NCR

Top ten Rest Of INDIA Cuisines

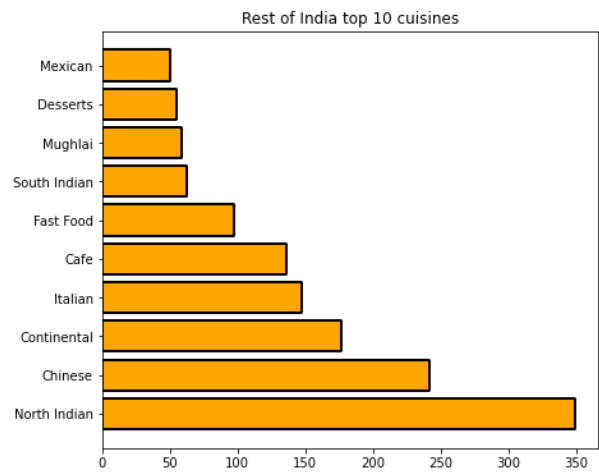
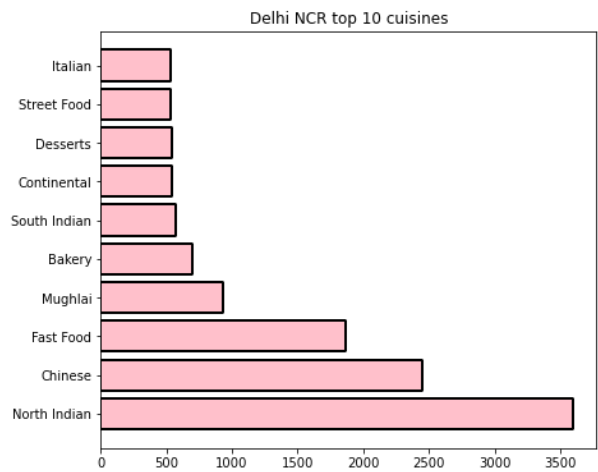
Plotting bargraph for comparison between Delhi NCR and rest of india

Top 10 cuisines in Delhi NCR:

North Indian
Chinese
Fast Food
Mughlai
Bakery
South Indian
Continental
Desserts
Street Food
Italian

Top 10 cuisines in Rest Of India:

North Indian
Chinese
Continental
Italian
Cafe
Fast Food
South Indian
Mughlai
Desserts
Mexican

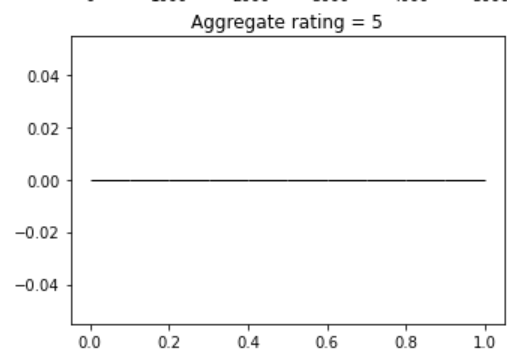
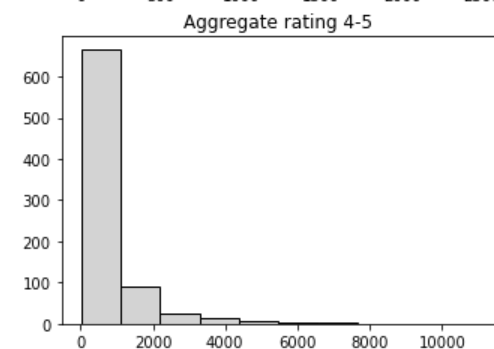
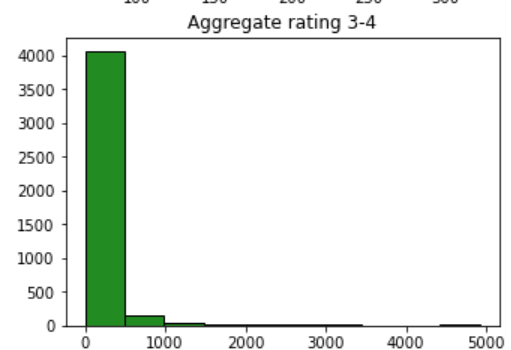
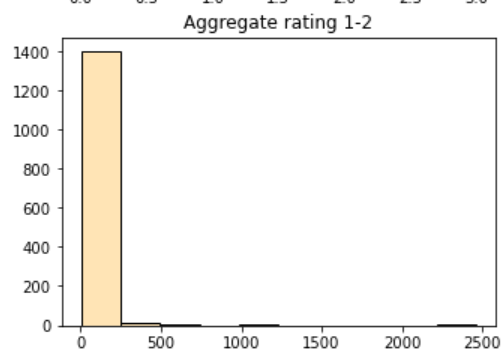
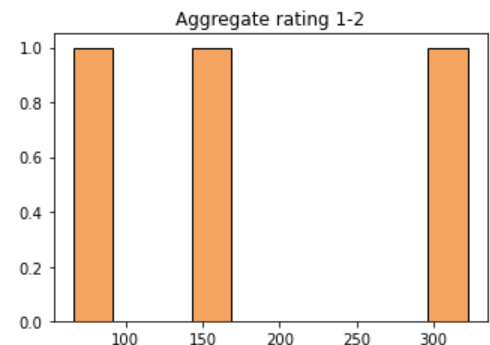
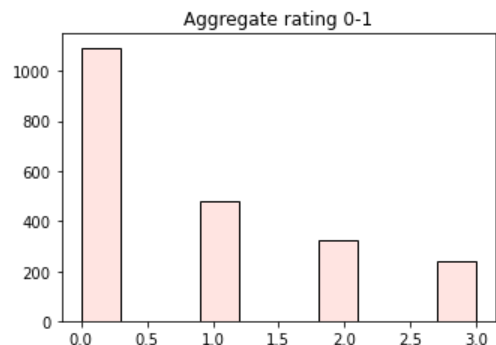


Understanding User Rating of a Restaurant

Analysis to find the influence of number of votes on user rating

X-axis represent the No. of votes (interval) recieved by the restaurant (in the particular rating interval)

Y-Axis represent the Frequency of no.of votes i.e number of restaurants recieved that no. of votes(interval)



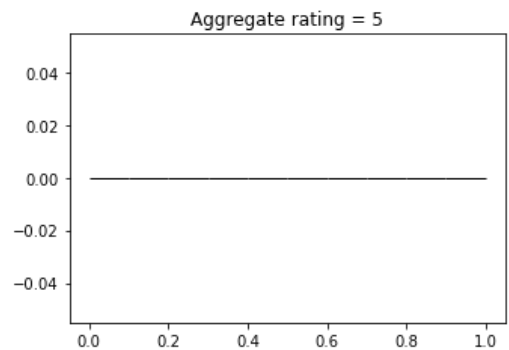
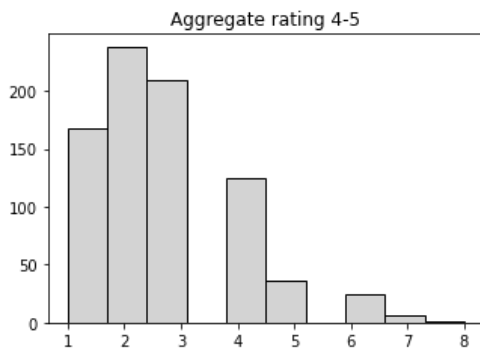
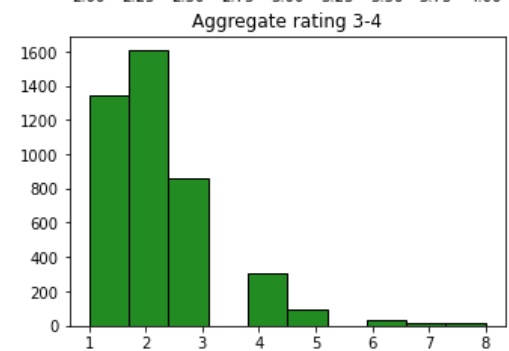
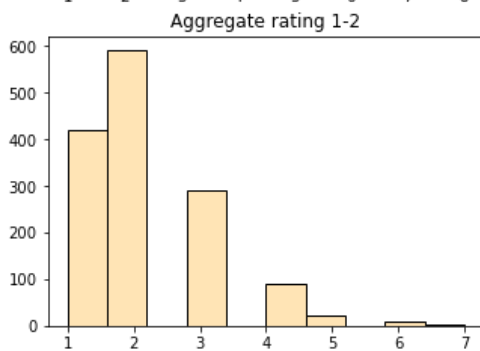
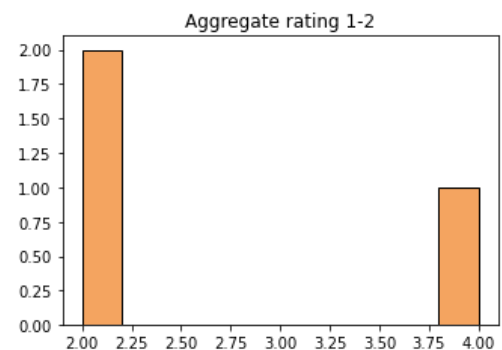
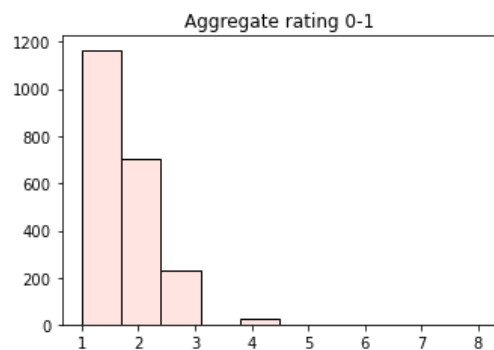
Detailed Analysis:

Aggregate rating increases with number of votes that a restaurant is having.

Analysis To find the effect of the Restaurant serving more number of cuisines on the average rating of restaurant.

X-axis represent the No. of cuisines served by the restaurant (in the particular rating interval)

Y-Axis represent the Frequency of no.of cuisines (number of restaurants serving that no. of cuisines)



Detailed Analysis:

In general trend is that the as average rating increases their is upward increase in number of restaurant serving more cuisines

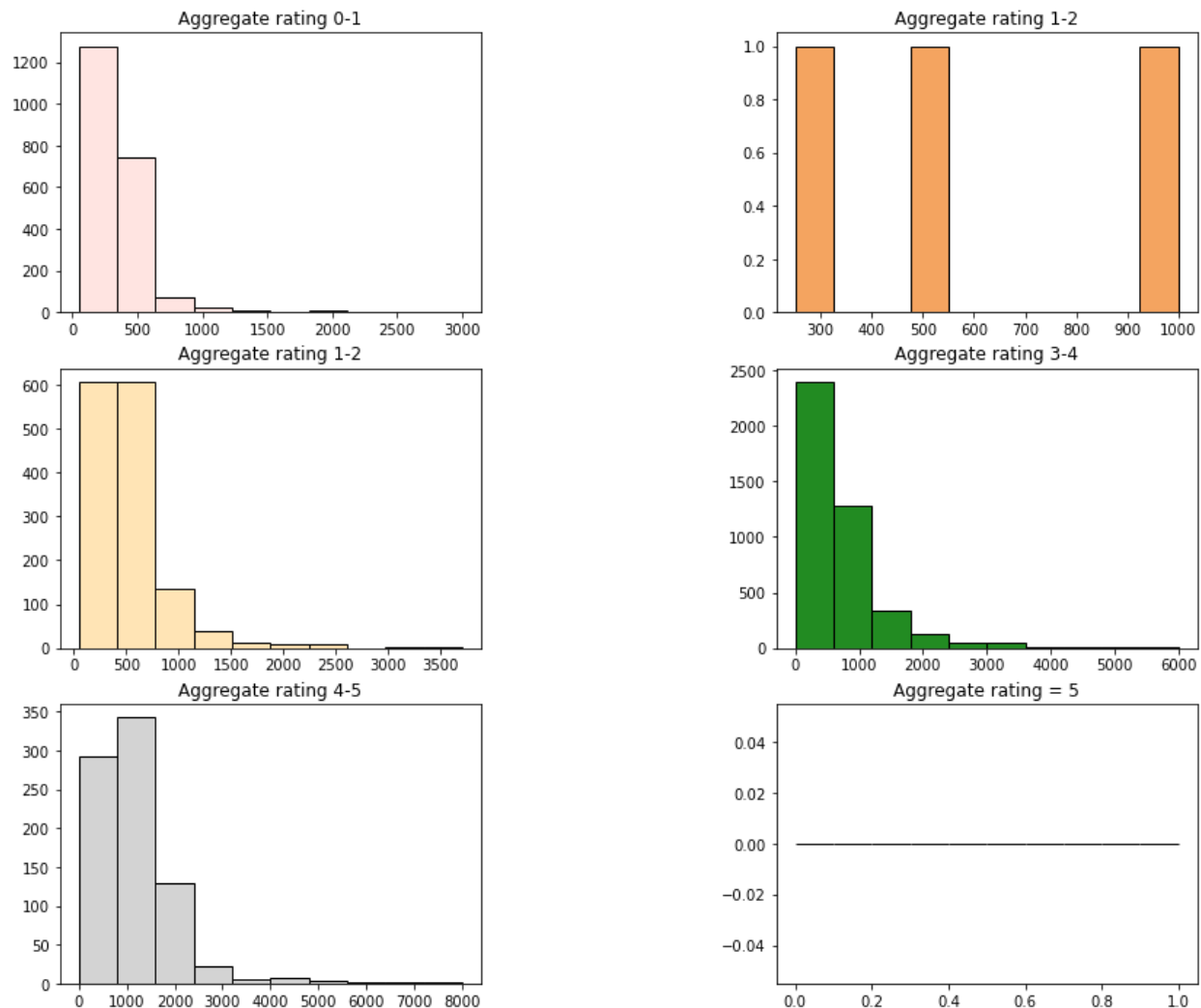
For average rating lying between 0 and 1 maximum of restaurants are having the average cost less than 3.

While average rating lying between 4 and 5 some of restaurants are having the number of cuisines even as high as 6 to 8.

Analysis To find the influence of Average cost for two of the restaurant on the Average rating of restaurant

X-axis represent the Average Cost for two of the restaurant (in the particular rating interval)

Y-Axis represent the Frequency of Average Cost for two i.e number of restaurants having that Average Cost for two



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Detailed Analysis:

In general trend is that the as average rating increases their is upward push in average cost of two.

For average rating lying between 0 and 1 maximum of restaurants are having the average cost less than 500.

While average rating lying between 4 and 5 maximum of restaurants are having the average cost between 1000 and 2000.

Restaurant serving some specific cuisines.

Exclusive Cuisines for Aggregate Rating lying between 4 & 5:

Rajasthani
Modern Indian
Mediterranean
Mexican
Parsi
Seafood
Persian
Portuguese
Healthy Food
Juices
Korean
Thai
Greek
Kerala
Tex-Mex
Malaysian
Nepalese
Sushi
Vietnamese
Naga
Spanish
Salad
Charcoal Grill
Mediterranean
Charcoal Grill
French
Goan
Burmese
African
Iranian
Juices
Lucknowi
Sushi
Andhra
Awadhi
Kerala
Middle Eastern
Indonesian
British
Mangalorean
Modern Indian
North Eastern
German
Steak
Spanish
Parsi
Korean
Bihari
Greek
Sri Lankan
Gujarati

Exclusive Cuisines for Aggregate Rating 4.9:

Modern Indian
Lucknowi

Detailed Analysis

For overall level of comparison between ratings lying between 4 & 5 and 2 & 3. Aggregate Rating 4 & 5 Category have some exclusive type of cuisines so exclusivity affects rating level.
For level of comparison between ratings between 4.9 and 3.8. Aggregate Rating 4.9 have some exclusive type of cuisines so exclusivity affects rating level.

Top 10 localities with more weighted restaurant rating.

Weighted Restaurant Rating = $\frac{\sum (\text{number of votes} * \text{rating})}{\sum (\text{number of votes})}$.

Top ten localities:-

Hotel Clarks Amer, Malviya Nagar has weighted rating of 4.9 .
Aminabad has weighted rating of 4.9 .
Friends Colony has weighted rating of 4.886916367367881 .
Powai has weighted rating of 4.841868613138686 .
Kirlampudi Layout has weighted rating of 4.820161290322581 .
Deccan Gymkhana has weighted rating of 4.8 .
Express Avenue Mall, Royapettah has weighted rating of 4.8 .
Banjara Hills has weighted rating of 4.7187617260787995 .
Sector 5, Salt Lake has weighted rating of 4.707022552098202 .
Riverside Mall, Gomti Nagar has weighted rating of 4.7 .

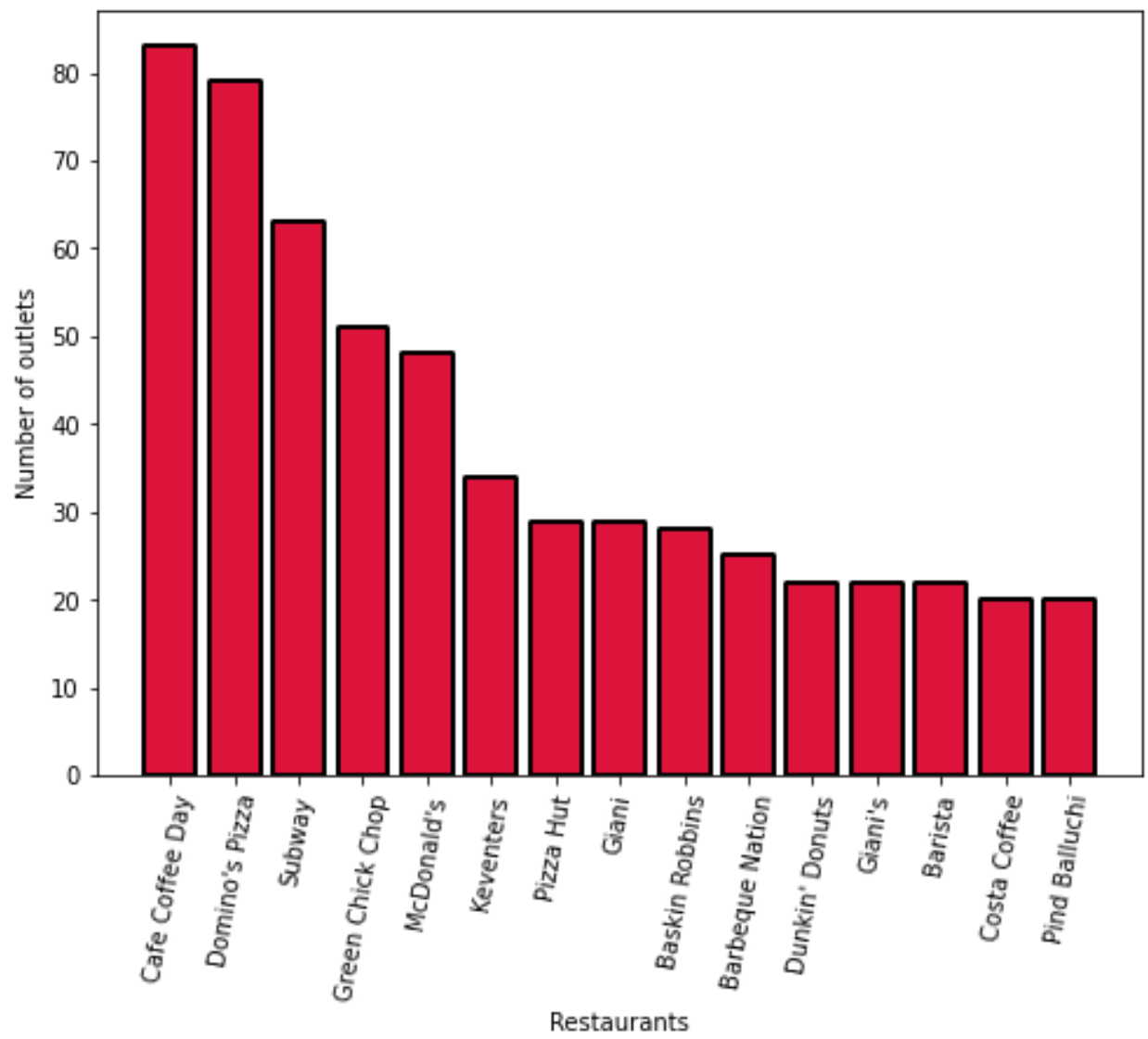
Visualization

Bar graph top 15 restaurants have a maximum number of outlets.

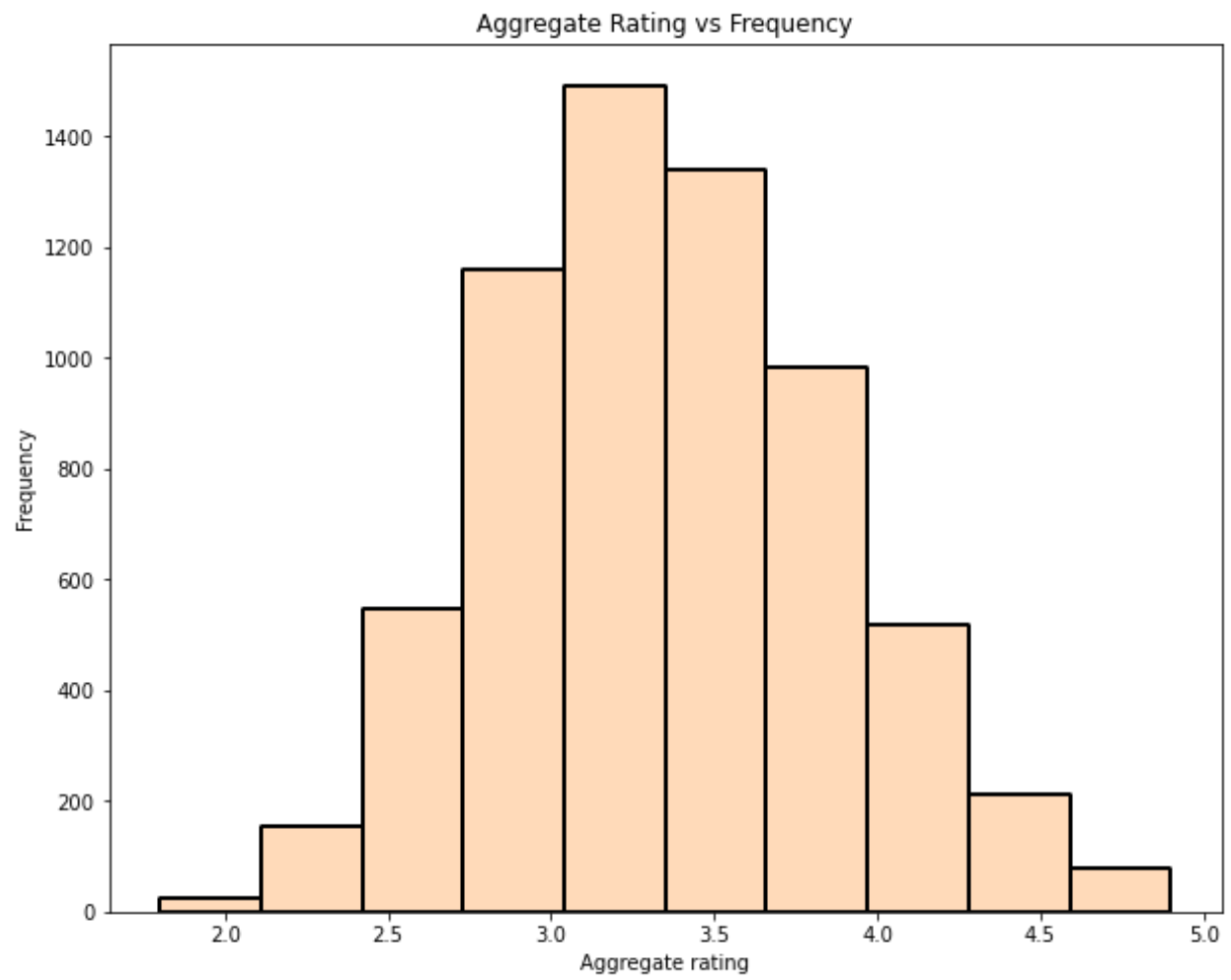
Top 15 restaurants have a maximum number of outlets:-

Cafe Coffee Day has 83 outlets
Domino's Pizza has 79 outlets
Subway has 63 outlets
Green Chick Chop has 51 outlets
McDonald's has 48 outlets
Keventers has 34 outlets
Pizza Hut has 29 outlets
Giani has 29 outlets
Baskin Robbins has 28 outlets
Barbeque Nation has 25 outlets
Dunkin' Donuts has 22 outlets
Giani's has 22 outlets
Barista has 22 outlets
Costa Coffee has 20 outlets
Pind Balluchi has 20 outlets

Restaurants vs Number of outlets

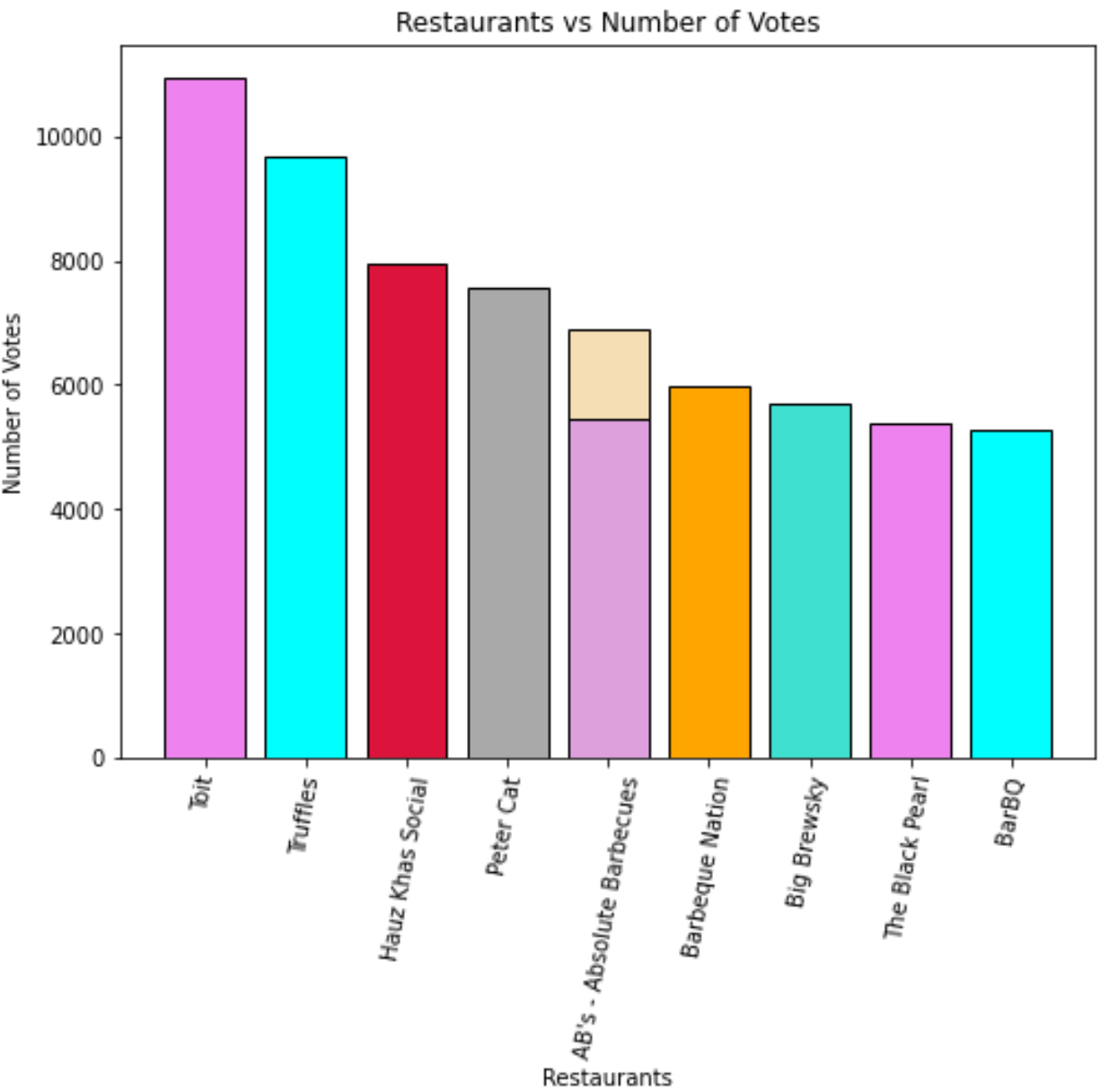


Histogram of aggregate rating of restaurant.



Bar graph of top 10 restaurants in the data with the highest number of votes.

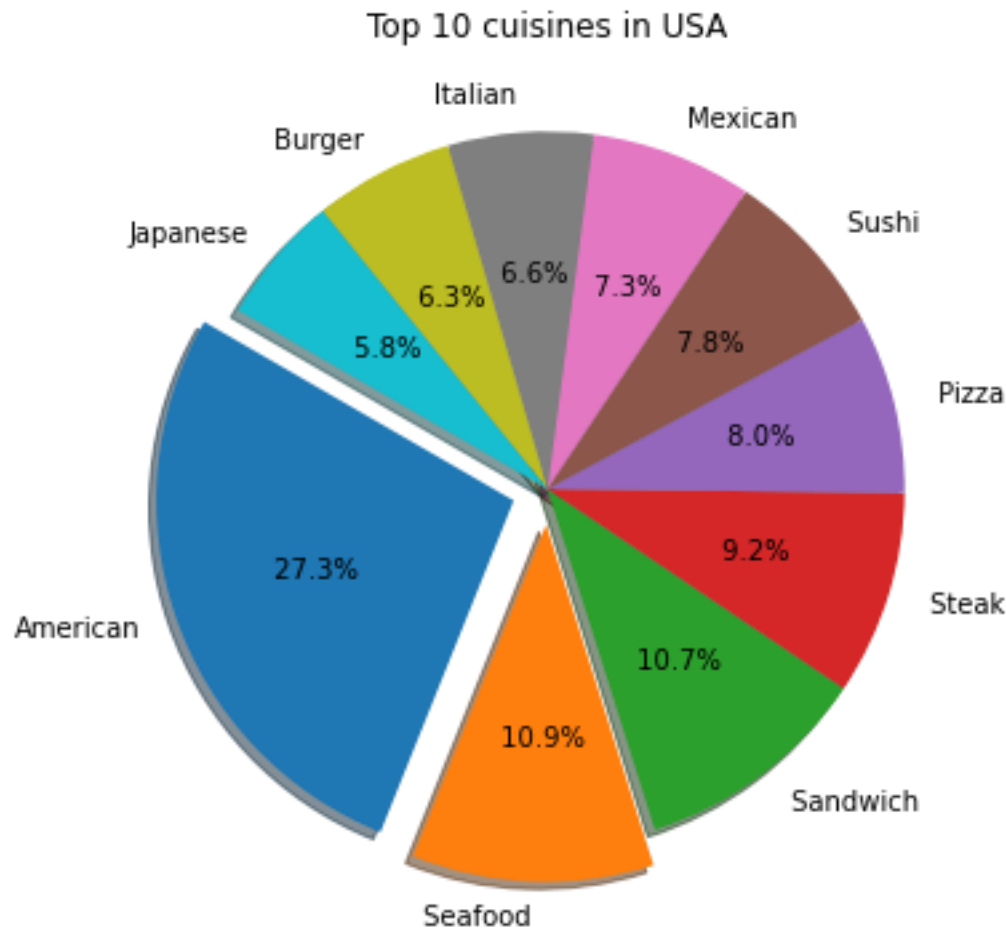
Top 10 restaurants with highest number of votes
Toit has 10934
Truffles has 9667
Hauz Khas Social has 7931
Peter Cat has 7574
AB's - Absolute Barbecues has 6907
Barbeque Nation has 5966
Big Brewsky has 5705
AB's - Absolute Barbecues has 5434
The Black Pearl has 5385
BarBQ has 5288



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

Top 10 cuisines present in restaurants in the USA:-

American is served in 112 restaurants.
Seafood is served in 45 restaurants.
Sandwich is served in 44 restaurants.
Steak is served in 38 restaurants.
Pizza is served in 33 restaurants.
Sushi is served in 32 restaurants.
Mexican is served in 30 restaurants.
Italian is served in 27 restaurants.
Burger is served in 26 restaurants.
Japanese is served in 24 restaurants.



Bubble graph of a number of Restaurants present in the city of India.

Weighted Ratings	Number of restaurants	
Agra	4.006984	20
Ahmedabad	4.163215	21
Allahabad	3.409626	20
Amritsar	3.764584	21
Aurangabad	3.427315	20
Bangalore	4.497423	20
Bhopal	4.125930	20
Bhubaneshwar	3.967759	21
Chandigarh	4.106691	18
Chennai	4.319682	20
Coimbatore	4.174994	20
Dehradun	4.016173	20
Faridabad	3.482979	251
Ghaziabad	3.037870	25
Goa	4.158438	20
Gurgaon	3.743958	1118
Guwahati	4.265733	21
Hyderabad	4.487773	18
Indore	3.998346	20
Jaipur	4.281508	20
Kanpur	3.853793	20

Kochi	4.137380	20
Kolkata	4.295152	20
Lucknow	4.323527	21
Ludhiana	4.083607	20
Mangalore	3.761117	20
Mohali	4.300000	1
Mumbai	4.216608	20
Mysore	3.761202	20
Nagpur	4.108652	20
Nashik	3.587255	20
New Delhi	3.765872	5473
Noida	3.472631	1080
Panchkula	4.200000	1
Patna	3.455066	20
Puducherry	3.737062	20
Pune	4.283996	20
Ranchi	3.573603	20
Secunderabad	4.548055	2
Surat	4.017698	20
Vadodara	4.131989	20
Varanasi	3.563852	20
Vizag	4.131187	

Cities Vs Number of Restaurant

