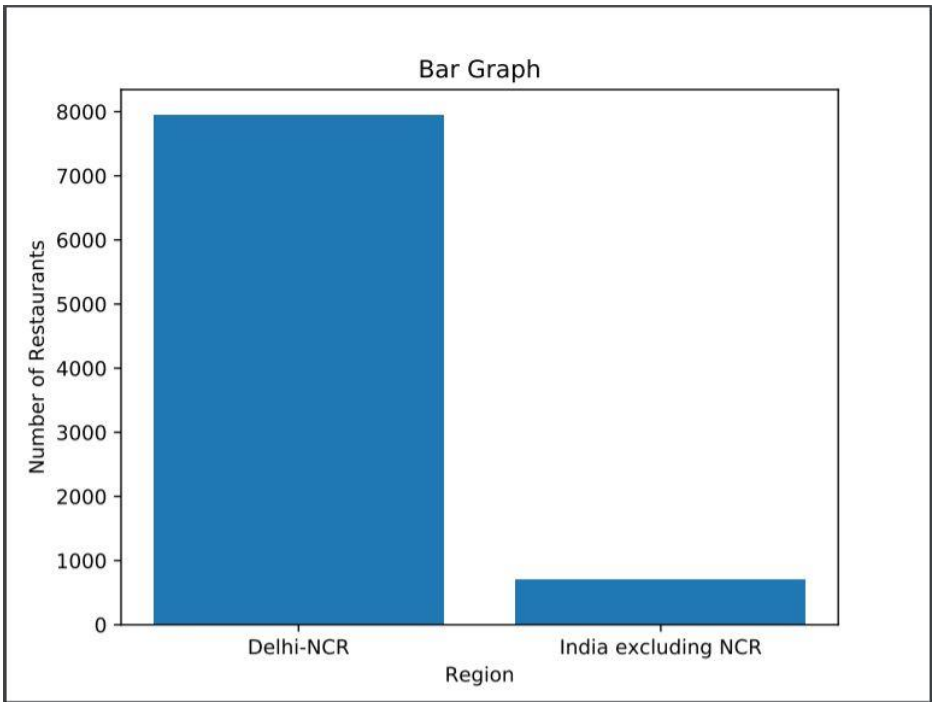
Zomato API – II project report

In this file, the graphs are present along with their outputs and description (if required).
Code files are separately put in .py extension as I don't use Jupiter Notebook and prefer IDLE over it. It was mentioned that we are required to put in .ipynb format. I don't think that should be a problem:)

Also, the numbering of the questions follows like:
If Q.1 has 4 parts in it, then they are named as 1.1, 1.2, 1.3, 1.4 and similarly for other 2 questions.

1.1

Graph:



1.2

Output:

Cuisines which are not present in Delhi NCR but in rest of India:
BBQ
Malwani
German
Cajun

The cuisines from the above answer common to obtained through API:
BBQ
Malwani

Hence, the data is not correct due to incomplete dataset provided.

1.3

Output:

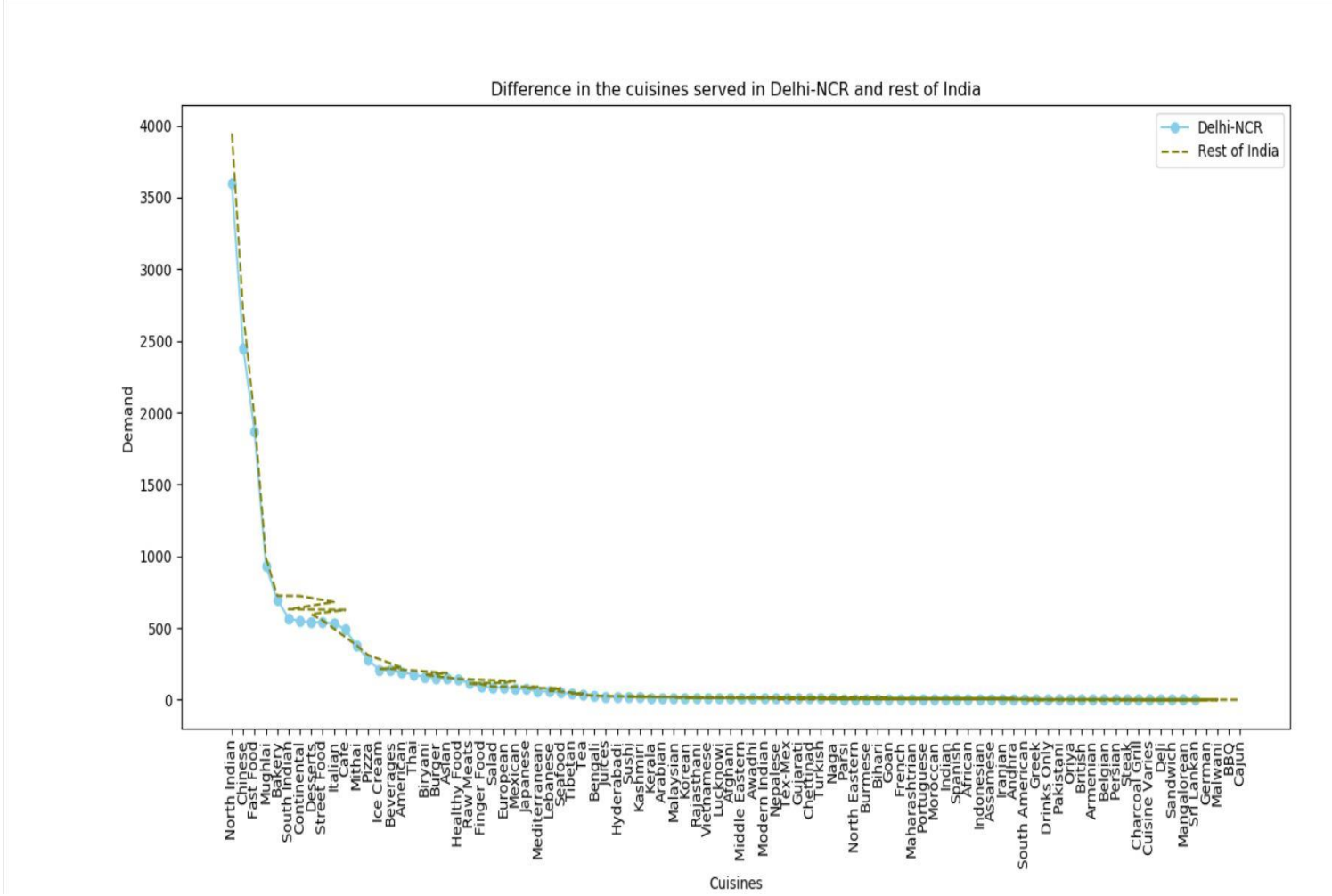
Top 10 cuisines served in Delhi NCR :
North Indian 3597
Chinese 2448
Fast Food 1866
Mughlai 933
Bakery 697
South Indian 569
Continental 547
Desserts 542
Street Food 538
Italian 535

Top 10 cuisines served in Rest of India :
North Indian 3946
Chinese 2690
Fast Food 1963
Mughlai 992
Bakery 726
Continental 724
Italian 682
South Indian 631
Cafe 627
Desserts 597

Top 10 cuisines served in Delhi NCR along with Rest of India :
North Indian 7543
Chinese 5138
Fast Food 3829
Mughlai 1925
Bakery 1423
Continental 1271
Italian 1217
South Indian 1200
Desserts 1139
Cafe 1118

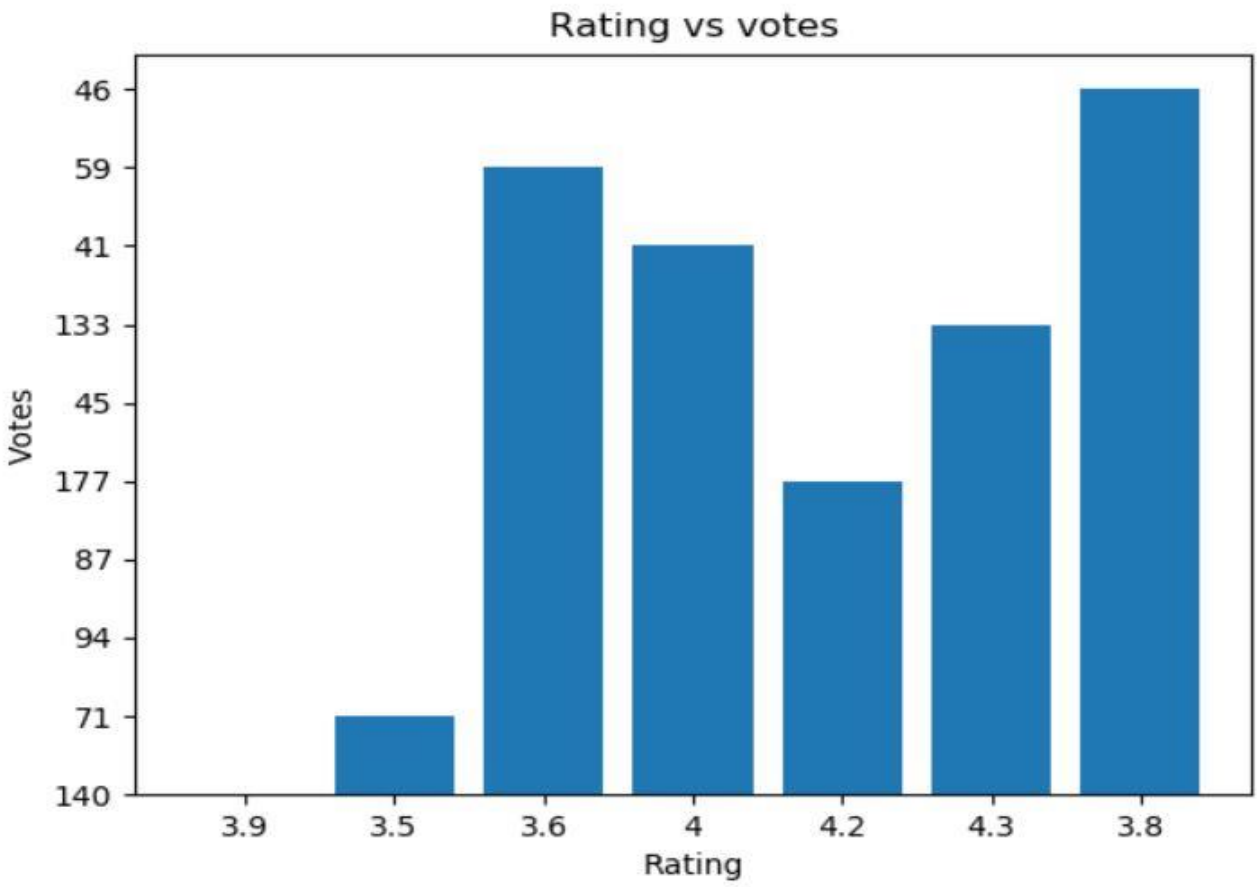
1.4

Graph:


Difference in the cuisines served in Delhi-NCR and rest of India
Delhi-NCR
Rest of India
Demand
4000
3500
3000
2500
2000
1500
1000
500
0
North Indian
Chinese
Fast Food
Mughlai
Bakery
South Indian
Continental
Desserts
Street Food
Italian
Cafe
Mithai
Pizza
Ice Cream
Beverages
American
Thai
Biryani
Burger
Asian
Healthy Food
Raw Meats
Finger Food
Salad
European
Mexican
Japanese
Mediterranean
Lebanese
Seafood
Tibetan
Tea
Bengali
Juices
Hyderabadi
Sushi
Kashmiri
Kerala
Arabian
Malaysian
Korean
Rajasthani
Vietnamese
Lucknowi
Afghani
Middle Eastern
Awadhi
Modern Indian
Nepalese
Tex-Mex
Gujarati
Chettinad
Turkish
Naga
Parsi
North Eastern
Burmese
Bihari
Goan
French
Maharashtrian
Portuguese
Moroccan
Indian
Spanish
African
Indonesian
Assamese
Iranian
Andhra
South American
Greek
Drinks Only
Pakistani
Oriya
British
Armenian
Belgian
Persian
Kerala
Charcoal Grill
Cuisine Varies
Deli
Sandwich
Mangalorean
Sri Lankan
German
Malwani
BBQ
Cajun
Cuisines

2.1.1

Graph:

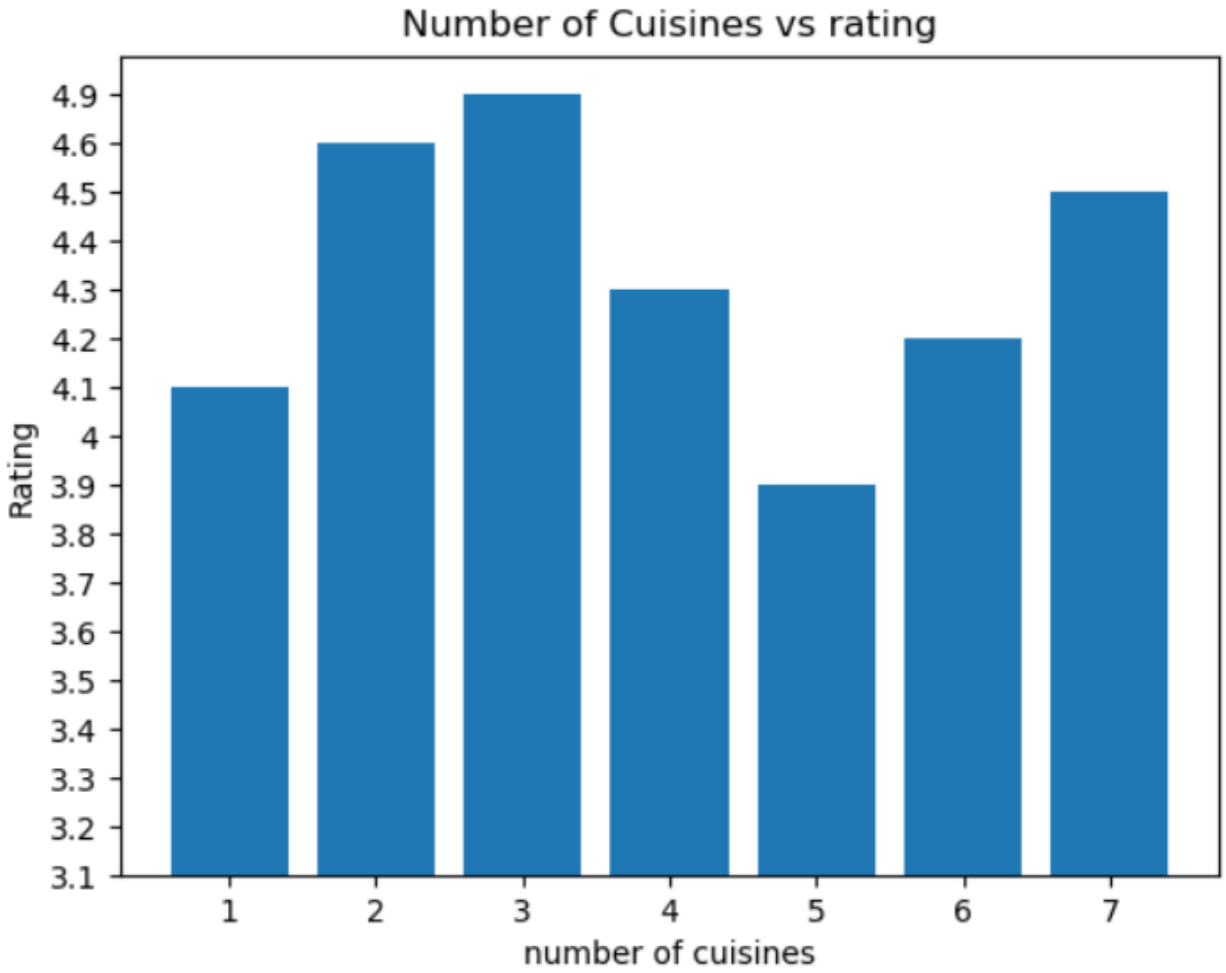


Justification:

Generally, the restaurants with high rating and high number of votes are preferred over the ones with low rating and low number of votes or with high rating and low number of votes. In the graph, it is clearly shown that the ratings are high for the ones with higher number of votes (Observations are taken for first 10 restaurants and plotted the graph).

2.1.2

Graph:



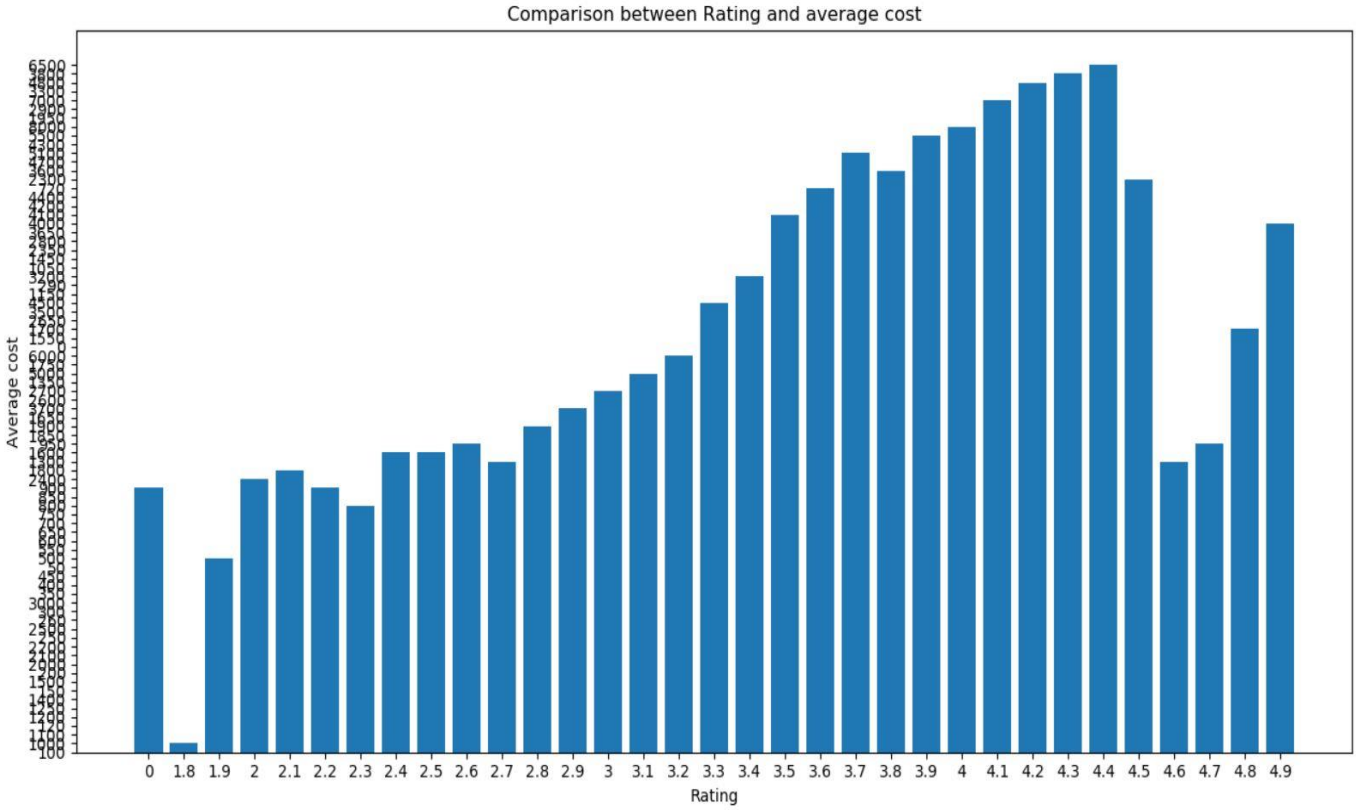
Justification:

By taking first 100 observations, there is no particular pattern observed for the restaurant serving more number of cuisines along with the rating.

It is also quite obvious as it totally depends on how good the restaurant is in serving the cuisines. In other words, quality matters not quantity.

2.1.3

Graph:

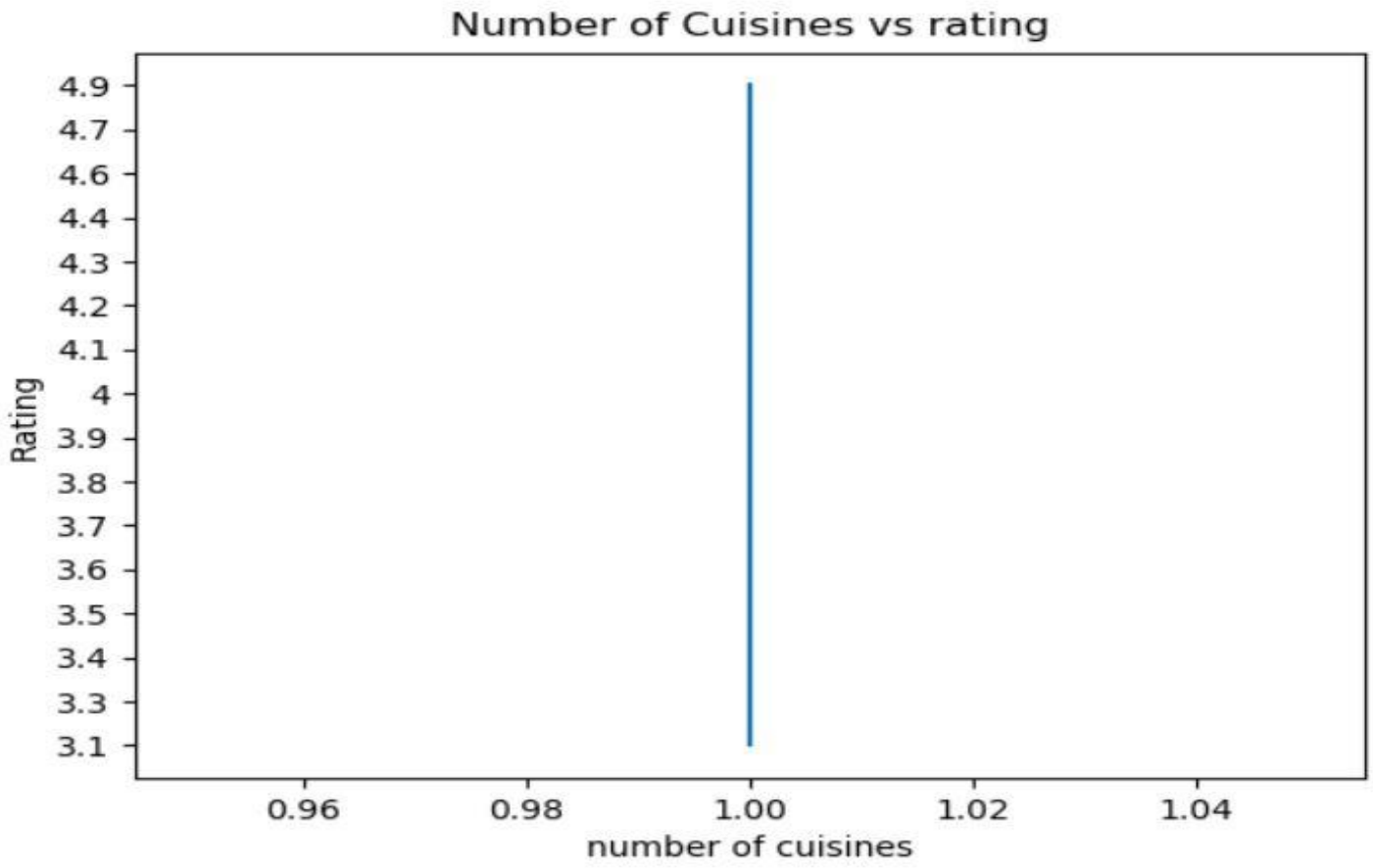


Justification:

Generally, it is observed that the ratings increases for the restaurants whose Average Cost is more but only within the rating range of around (3.6-4.3).
After that, the rating falls for the ones as less number of people vote for the same.
(Observations are taken for only nearly first 30 restaurants in the whole list and the graph is plotted accordingly)

2.1.4

Graph:



Justification:

In this, there is varied rating, no fixed order or pattern observed.
It totally depends on the way the people like it and restaurant serves it. (Observations are taken for only nearly first 30 restaurants in the whole list and the graph is plotted accordingly)

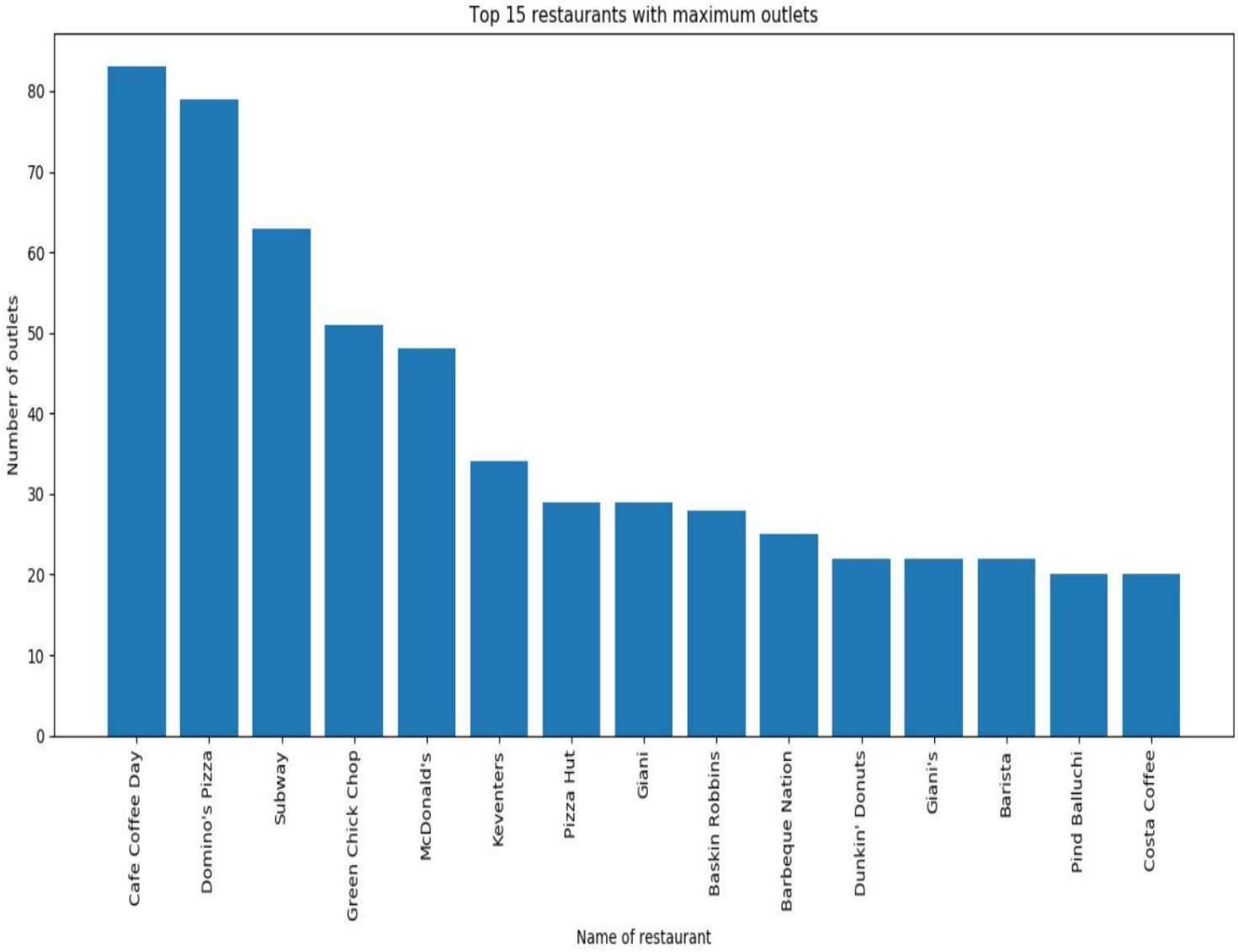
2.2.1

Output:

Top 10 localities with more weighted restaurants:
Hotel Clarks Amer, Malviya Nagar 4.90
Aminabad 4.90
Friends Colony 4.89
Powai 4.84
Kirlampudi Layout 4.82
Express Avenue Mall, Royapettah 4.80
Deccan Gymkhana 4.80
Banjara Hills 4.72
Sector 5, Salt Lake 4.71
Riverside Mall, Gomti Nagar 4.70

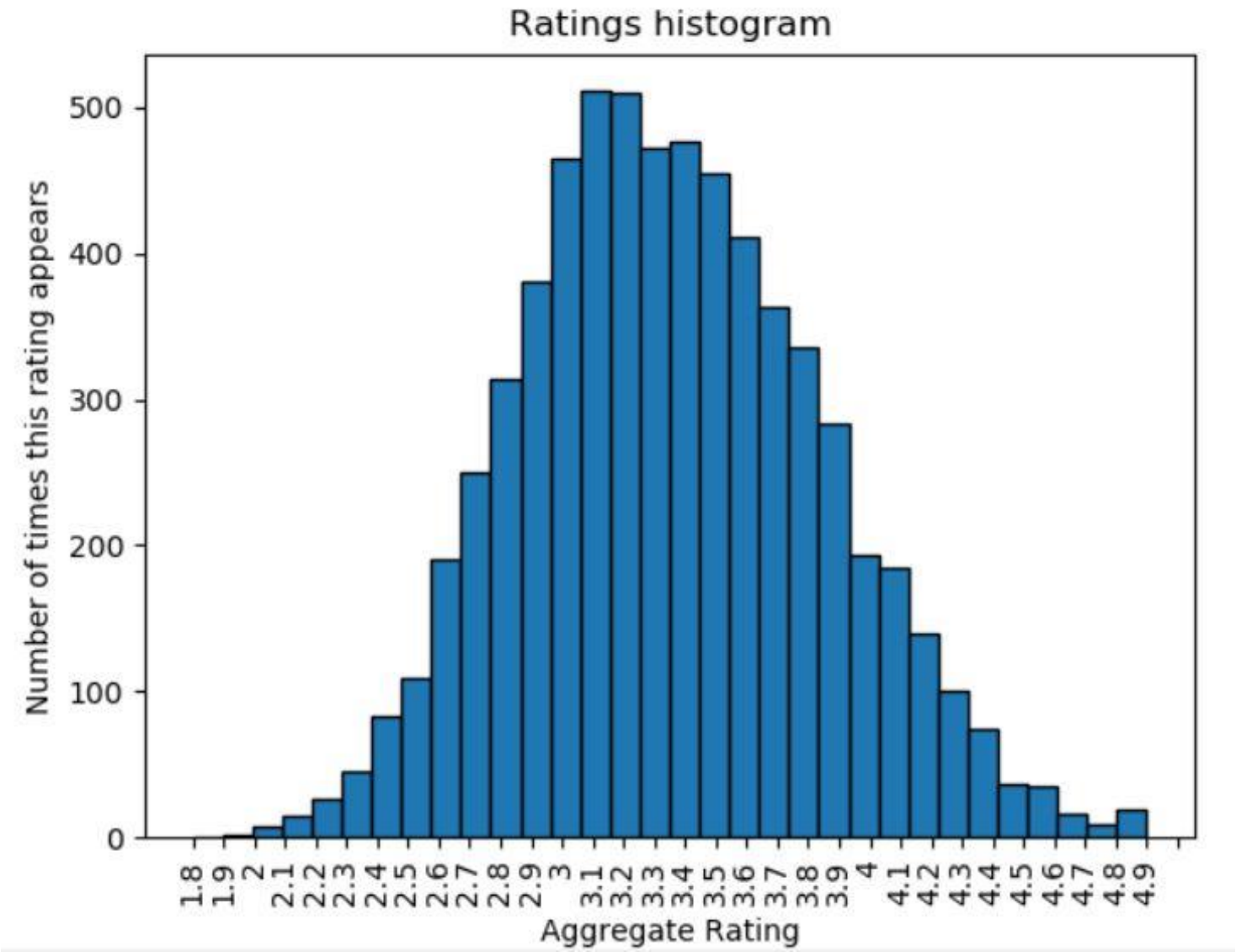
3.1

Graph:


Top 15 restaurants with maximum outlets
Numberr of outlets
0
10
20
30
40
50
60
70
80
Cafe Coffee Day
Domino's Pizza
Subway
Green Chick Chop
McDonald's
Keventers
Pizza Hut
Giani
Baskin Robbins
Barbeque Nation
Dunkin' Donuts
Giani's
Barista
Pind Balluchi
Costa Coffee
Name of restaurant

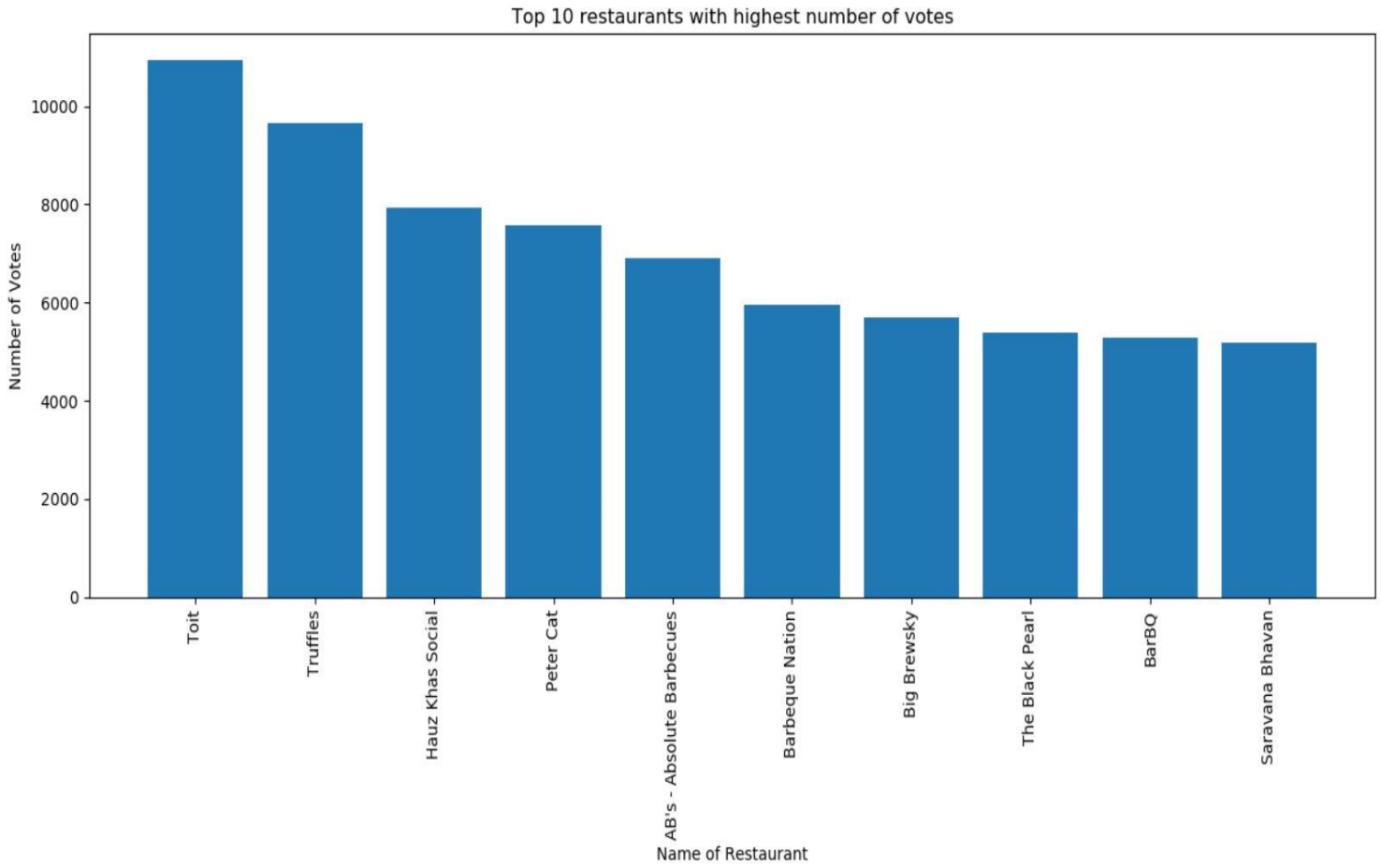
3.2

Graph:


Ratings histogram
Number of times this rating appears
0
100
200
300
400
500
1.8
1.9
2
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
Aggregate Rating

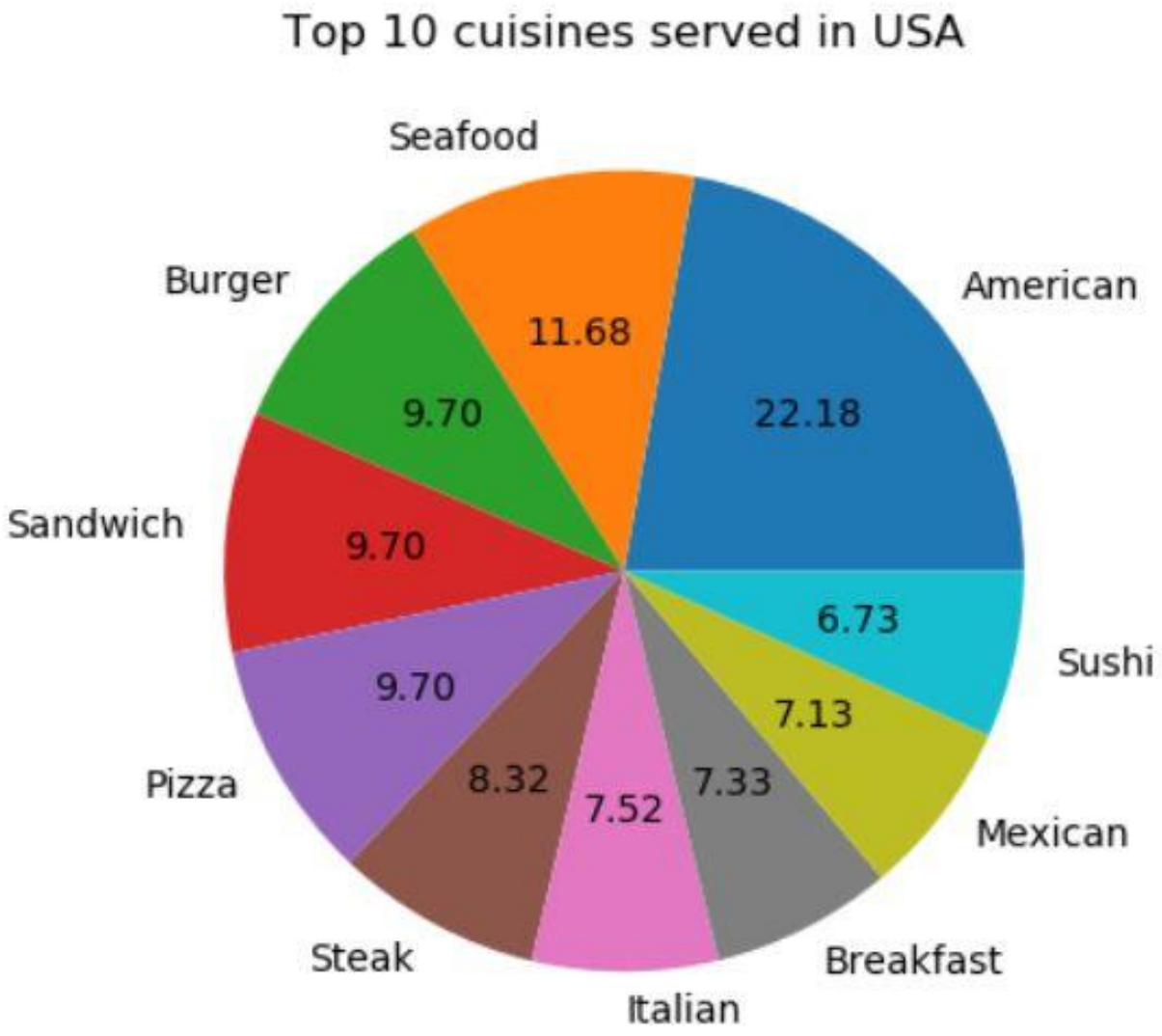
3.3

Graph:


Top 10 restaurants with highest number of votes
Number of Votes
0
2000
4000
6000
8000
10000
Toit
Truffles
Hauz Khas Social
Peter Cat
AB's - Absolute Barbecues
Barbeque Nation
Big Brewsky
The Black Pearl
BarBQ
Saravana Bhavan
Name of Restaurant

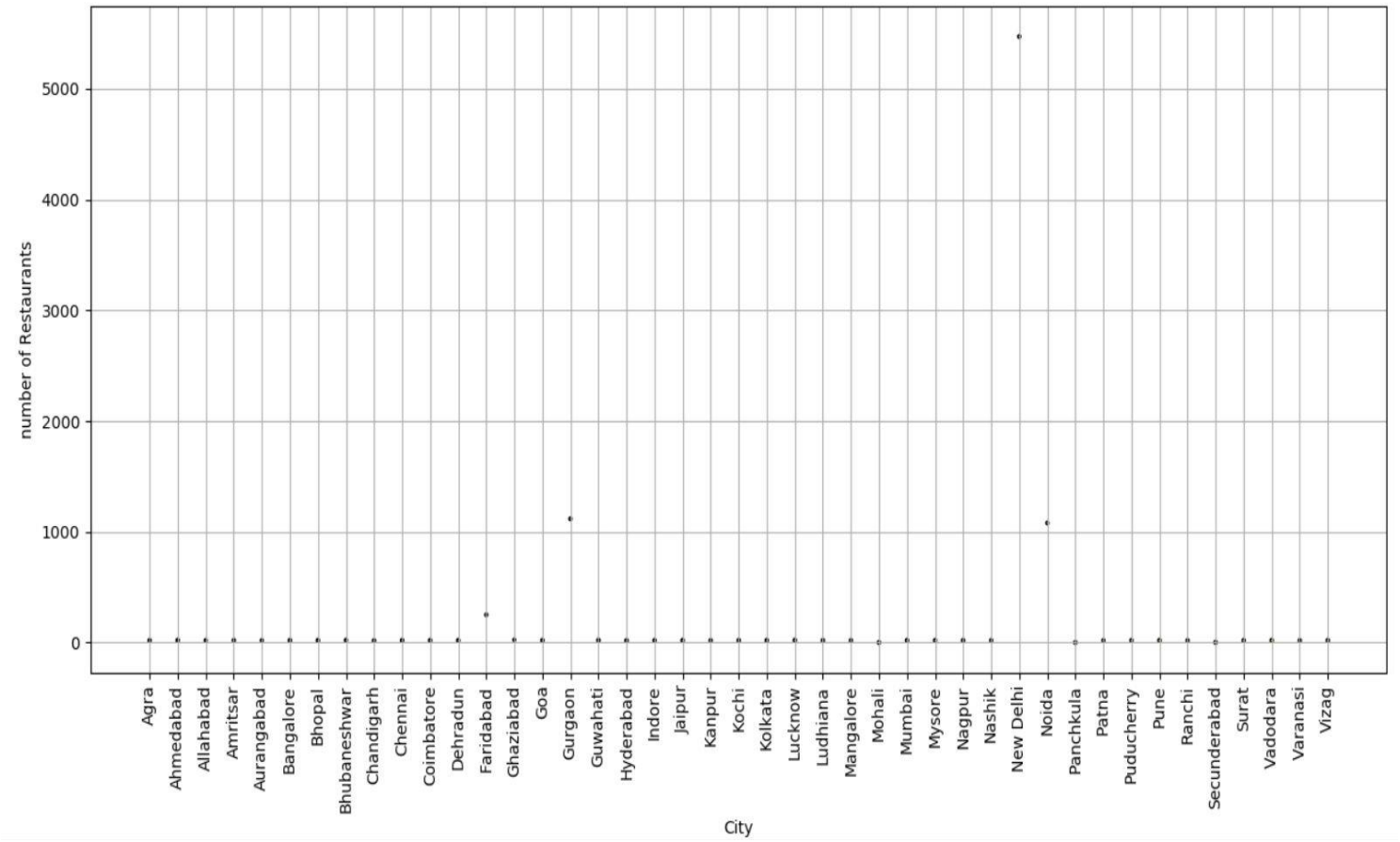
3.4

Graph:


Top 10 cuisines served in USA
Seafood
Burger
American
11.68
9.70
22.18
Sandwich
9.70
6.73
Sushi
9.70
7.13
Pizza
8.32
7.52
7.33
Mexican
Steak
Breakfast
Italian

3.5

Graph:



All these are required outputs of the questions and their Justification.
The code files are separately attached with .py extension.