

Capstone Project - The Battle of Neighborhoods (Week 2)

1. Introduction:

The idea of this project is to help people to search shopping center in New York city, choose the right location by providing data, rating and different shopping center.

To provide people the necessary information I'll be combining New York city data that contains list of Boroughs, Neighborhoods along with their latitude and longitude and Foursquare API to collect competitors on the same neighborhoods

2. Data Set:

As part of this project, we will list and visualize all major parts of New York City that has great shopping center.

- i. New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.

Data: https://cocl.us/new_york_dataset

- ii. Shopping center in each neighborhood of New York city.

Data: Foursquare API

- iii. GeoSpace data

Data: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>

3. Methodology:

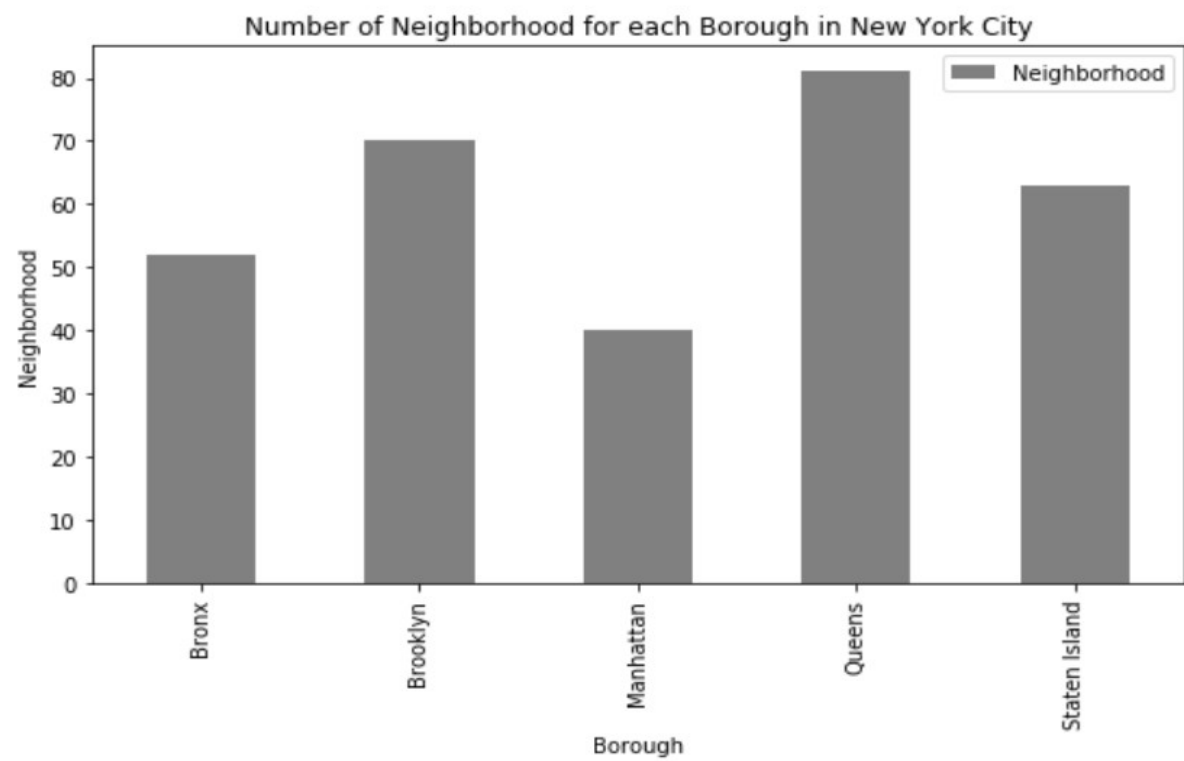
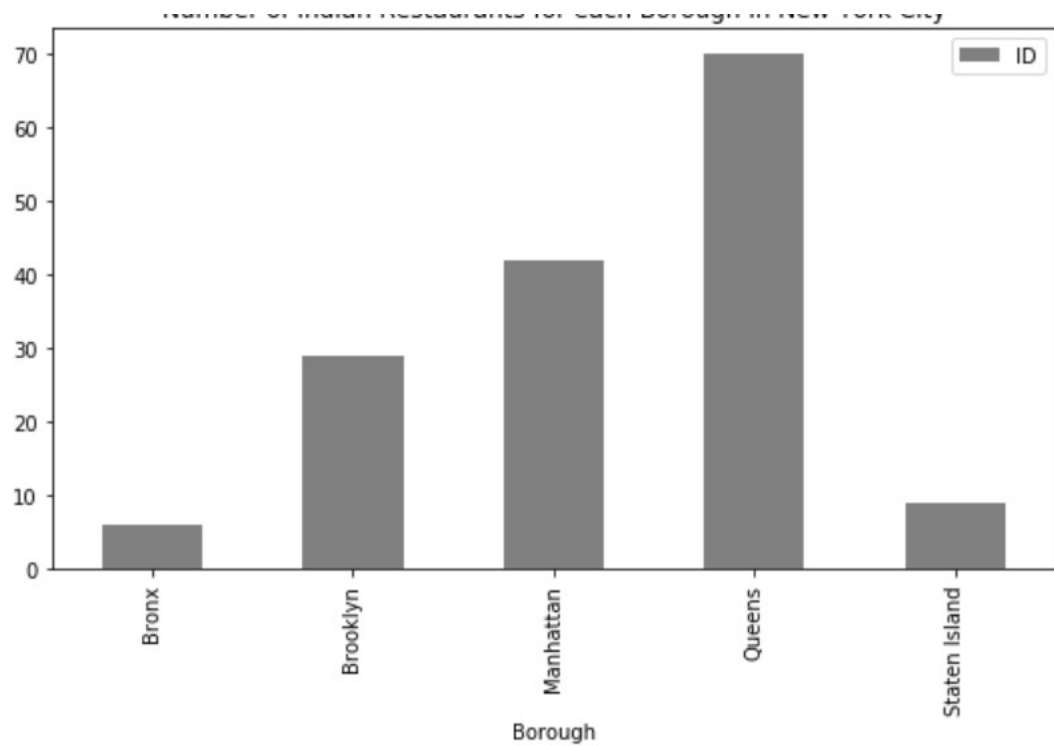
Methodology section which represents the main component of the report where you discuss and describe any exploratory data analysis that you did.

For this report I used a few different maps that could help a new investor to decide the best shopping center in New York City based on its brand, rating type of the, population.

- Using Foursquare API, we will find all venues for each neighborhood.
- Filter out all venues that are shopping center.
- Find rating, tips and like count for each shopping center using Foursquare API.
- Using rating for each shopping center, we will sort that data

4. Analysis:

We see that queens have highest number of neighborhoods



We see that Queens have more shopping center

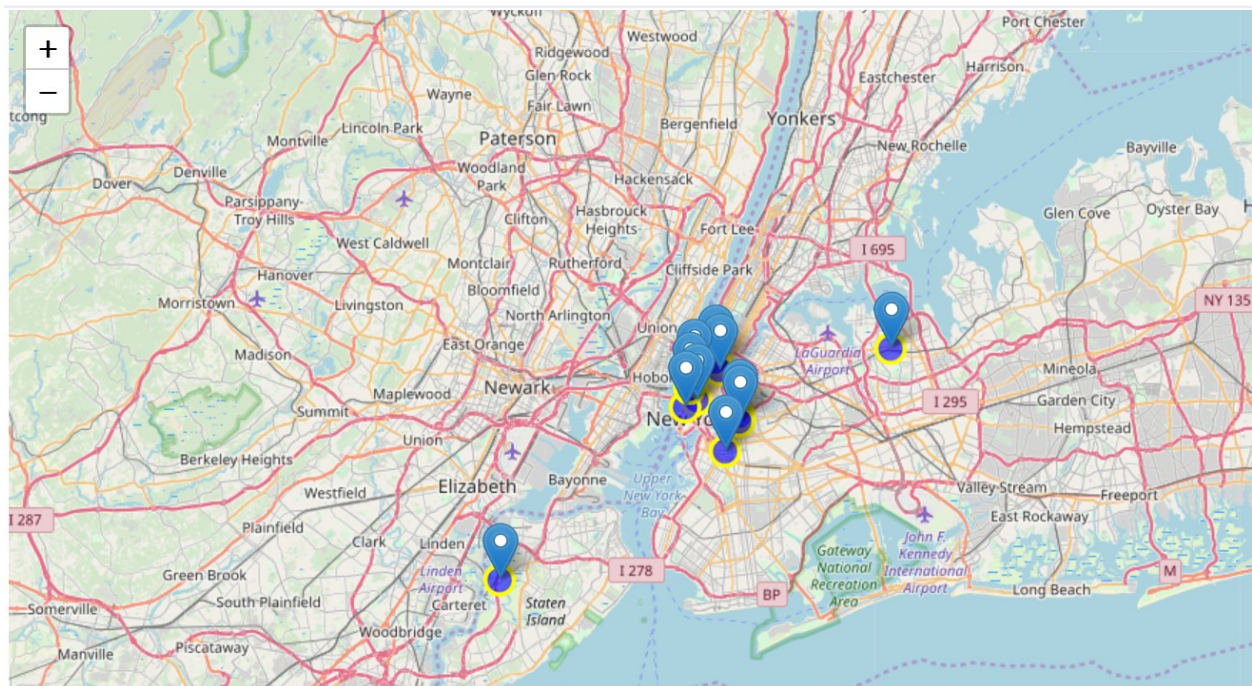
```
ny_neighborhood_stats.sort_values(['Average Rating'],ascending=False).head(10)
```

	Neighborhood	Average Rating
27	Tribeca	9.0
13	Greenwich Village	8.9
3	Chelsea	8.8
17	Midtown	8.8
18	Murray Hill	8.7
10	Fort Greene	8.6
25	South Side	8.6
19	North Side	8.6
24	Roosevelt Island	8.4
32	Yorkville	8.4

Decision is made on the average rating of the shopping center.

5. Results:

Results section where you discuss the results. We see that which neighborhood has the highest number average rating of shopping center.



6. Conclusion:

Conclusion section where you conclude the report. This report may be helpful for people for find the best location in New York City for shopping center. areas that lack shoppin center, best place to stay if I prefer shopping center, the accuracy of data depends on the data provided by Foursquare
