THE BATTLE OF NEIGHBORHOODS

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DATA

One city will be analyzed in this project: New York City. We will be using the below datasets for analyzing New York City's neighborhoods

Data 1: New York City has a total of 5 boroughs and 306 neighborhoods. In order to segment the neighborhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighborhoods that exist in each borough as well as the latitude and longitude coordinates of each neighborhoods. Data source: https://cocl.us/new_york_dataset

Data 2: Italian restaurants in each neighborhood of New York City. Data source: Foursquare API Description: By using this api we will get all the venues in each neighborhoods. We can filter these venues to get only Italian restaurants.

Data 3: GeoSpace data Data source: https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm Description: By using this geo space data we will get the New York Borough boundaries that will help us visualize choropleth map.

Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of New York city.
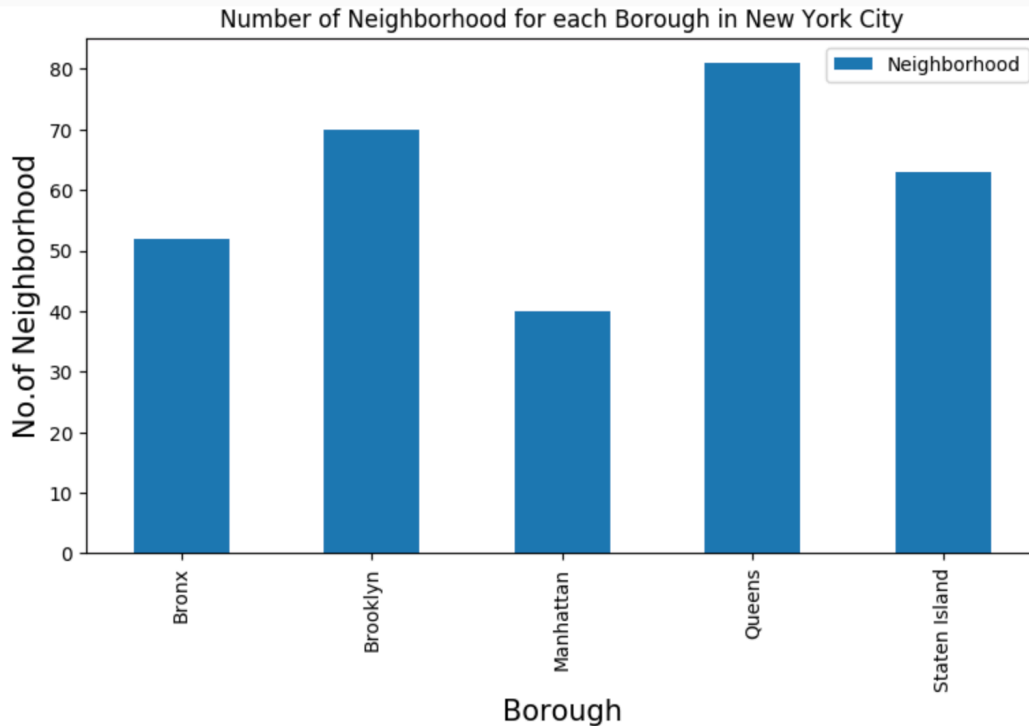
ANALYSIS

We will import the required libraries for python.

- Pandas and numpy for handling data.

- Request module for using FourSquare API.

- Geopy to get co-ordinates of City of New York.

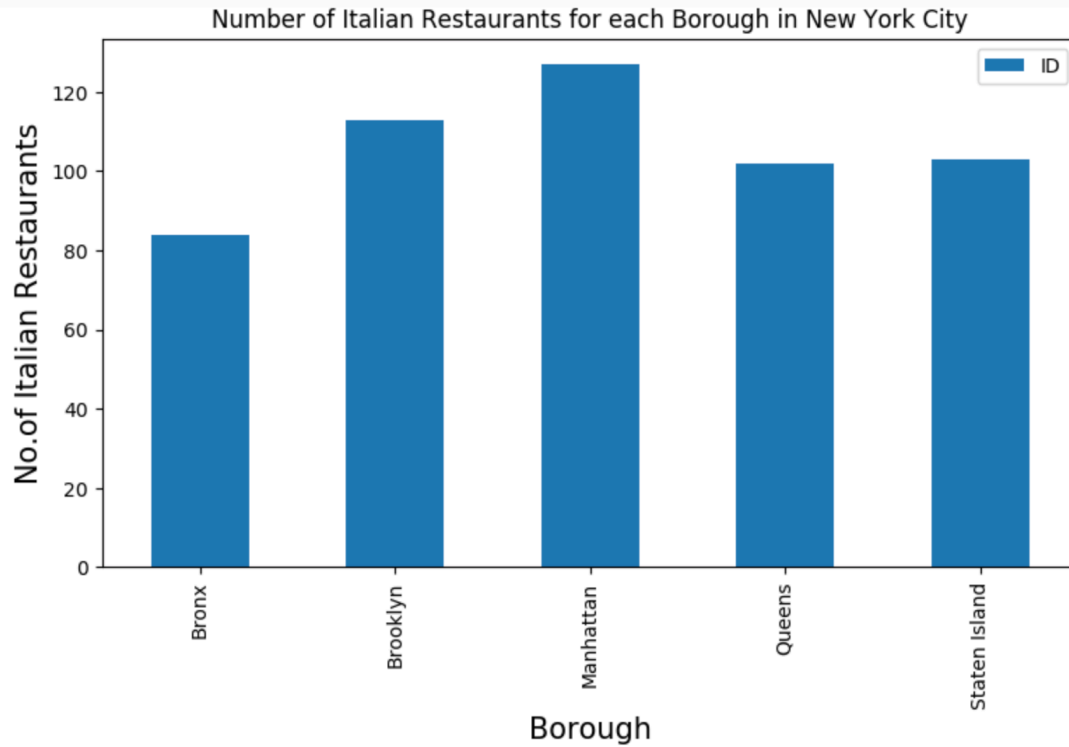- Folium to visualize the results on a map

RESULTS

Number of Neighborhood for each Borough in New York City

- First analysis we did is survey the amount of neighborhoods in each Borough in New York City
- Queens has the most neighborhoods (~80)
- Manhattan has the least (~40)

RESULTS

Number of Italian Restaurants for each Borough in New York City

- Second analysis we did is survey the amount of Italian restaurants in each Borough in New York City
- Manhattan has the most Italian restaurants (~120)
- Bronx has the least amount (~80)

CONCLUSION

The highest rated restaurants are located in Belmont.

Bronx has the least amount of Italian restaurants out of all the Boroughs.

We see that Manhattan has the most Italian restaurants out of all the Boroughs.

	Neighborhood	Average Rating
2	Belmont	8.685714
16	Woodlawn	8.500000
9	Morrisania	8.200000
5	Fordham	8.050000
0	Baychester	8.050000
14	Van Nest	8.000000
7	Melrose	7.800000
11	Pelham Parkway	7.766667
1	Bedford Park	7.700000
8	Morris Park	7.500000

Number of Italian Restaurants for each Borough in New York City