



GREEK RESTAURANTS in NEW YORK CITY

The Greek presence in New York City

New York City's demographics show that it is a large and ethnically diverse metropolis. It is the largest city in the United States with a long history of international immigration. New York City was home to nearly 8.5 million people in 2014, accounting for over 40% of the population of New York State and a slightly lower percentage of the New York metropolitan area, home to approximately 23.6 million. Over the last decade the city has been growing faster than the region. The New York region continues to be by far the leading metropolitan gateway for legal immigrants admitted into the United States.

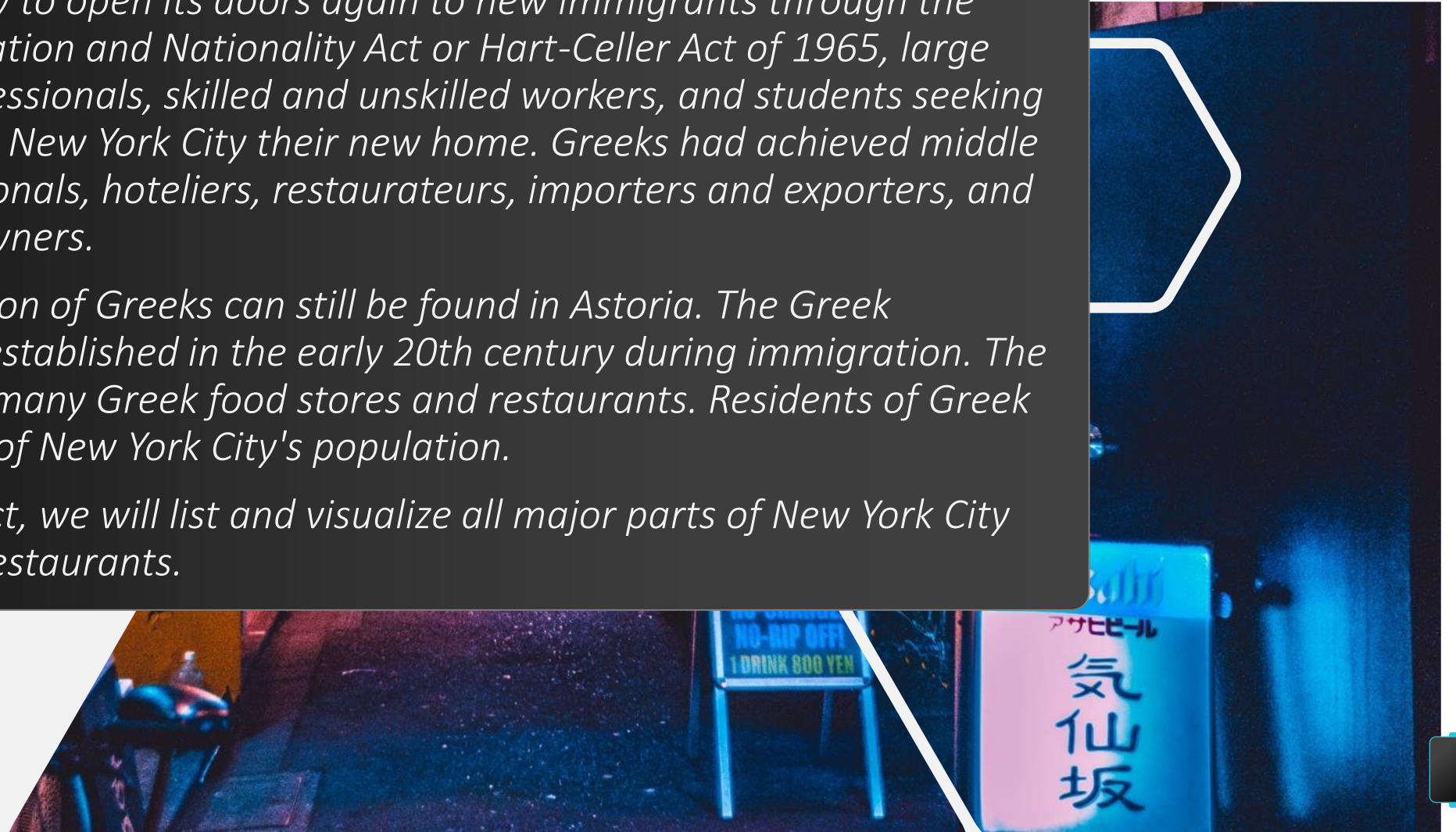
With it's diverse culture, comes diverse food items. The cuisine of New York City comprises many cuisines belonging to various ethnic groups that have entered the United States through the city. There are many restaurants in New York City, each belonging to different categories like Chinese, French, Italian, Greek etc.

The Greek presence in New York City

When the US was ready to open its doors again to new immigrants through the passage of the Immigration and Nationality Act or Hart-Celler Act of 1965, large numbers of Greek professionals, skilled and unskilled workers, and students seeking higher education made New York City their new home. Greeks had achieved middle class status as professionals, hoteliers, restaurateurs, importers and exporters, and other small business owners.

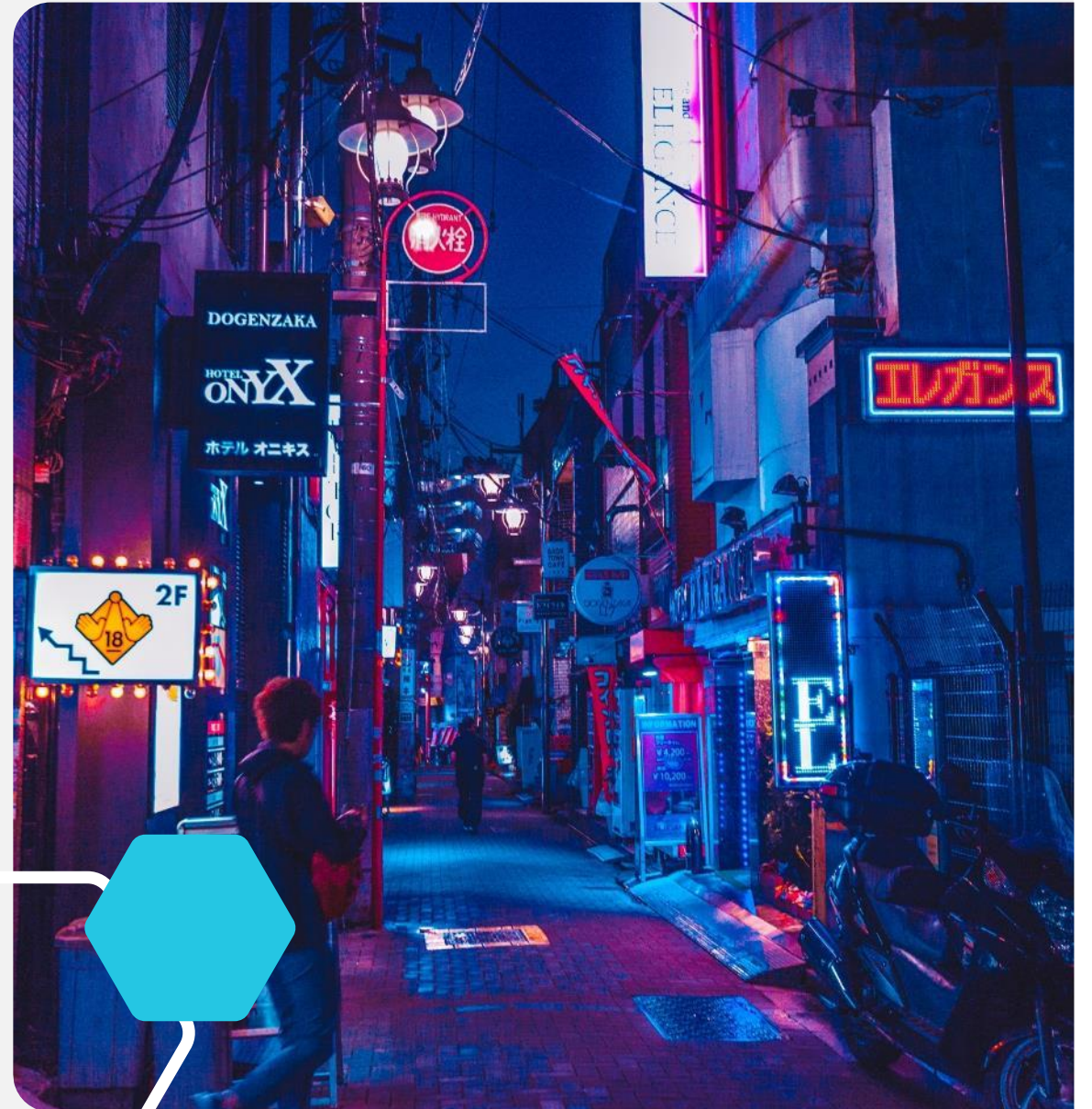
The largest concentration of Greeks can still be found in Astoria. The Greek community there was established in the early 20th century during immigration. The neighborhood still has many Greek food stores and restaurants. Residents of Greek descent make up 1.0% of New York City's population.

So as part of this project, we will list and visualize all major parts of New York City that has great Greek Restaurants.



Data

- For this project we need the following data :
- New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.
 - Data source: https://cocl.us/new_york_dataset
 - Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of New York City.
- Greek Restaurants in each neighborhood of New York city.
 - Data source: Fousquare API
 - Description: By using this API we will get all the venues in each neighborhood. We can filter these venues to get only Greek Restaurants.
- GeoSpace data.
 - Data source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
 - Description: By using this geoSpace data we will get the New York Borough boundaries that will help us visualize choropleth map.



Approach

- Collect the new york city data from https://cocl.us/new_york_dataset
- Using FourSquare API we will find all venues for each neighborhood.
- Filter out all venues that are Greek Restaurants.
- Find rating , tips and like count for each Indian Restaurants using FourSquare API.
- Using rating for each restaurant, we will sort that data.
- Visualize the Ranking of neighborhoods using folium library (Python)



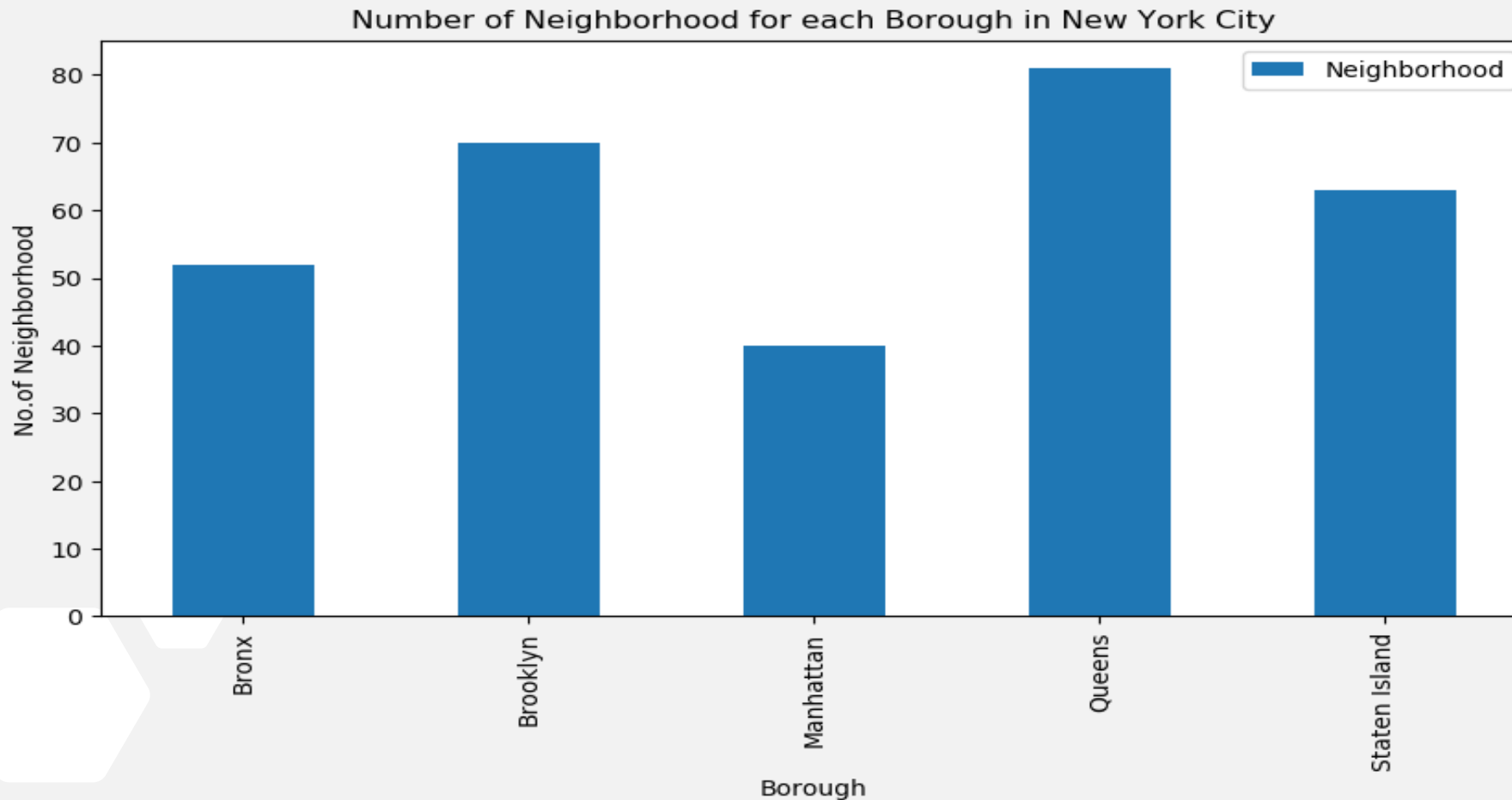
Questions that can be asked using the above mentioned datasets

- What is best location in New York City for Greek Cuisine ?
- Which areas have potential Greek Restaurant Market ?
- Which all areas lack Greek Restaurants ?
- Which is the best place to stay if I prefer Greek Cuisine



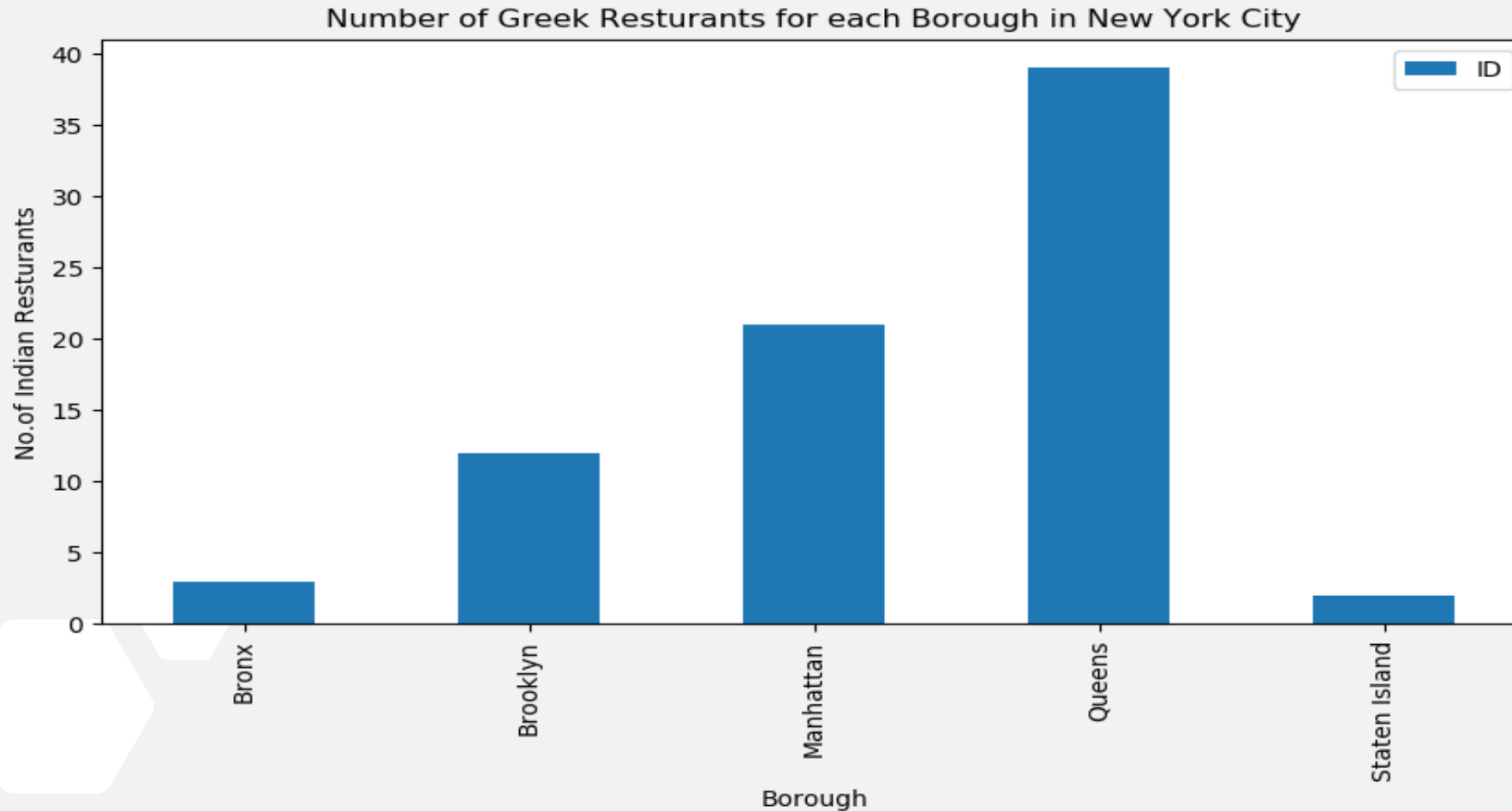
Results

1. We see that Queens has the highest number of Neighborhoods.



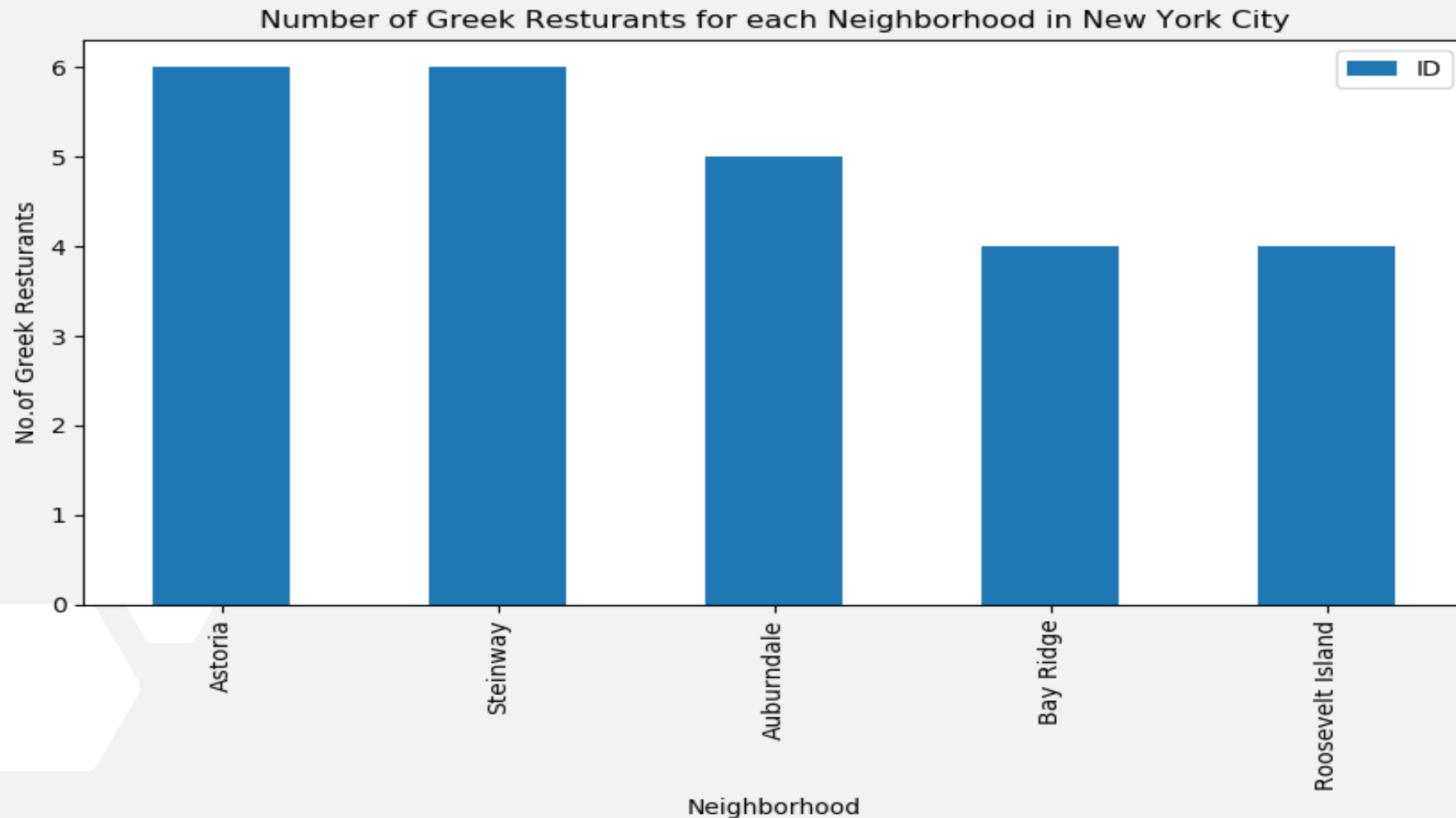
Results

2. Queens has the highest number of Greek Restaurants.



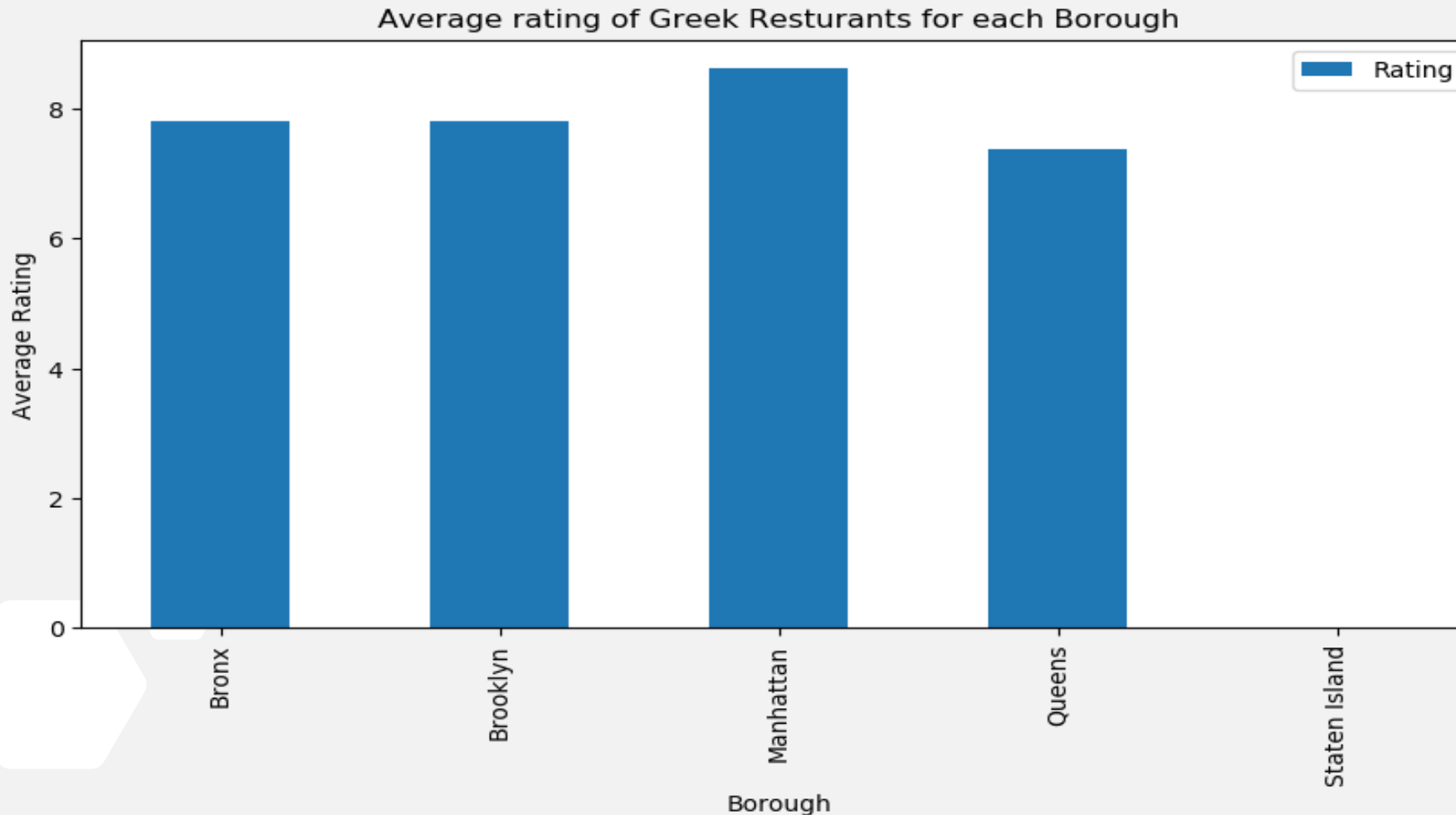
Results

3. Astoria and Steinway in Queens have the highest number of Greek Restaurants with a total count of 6 each one.



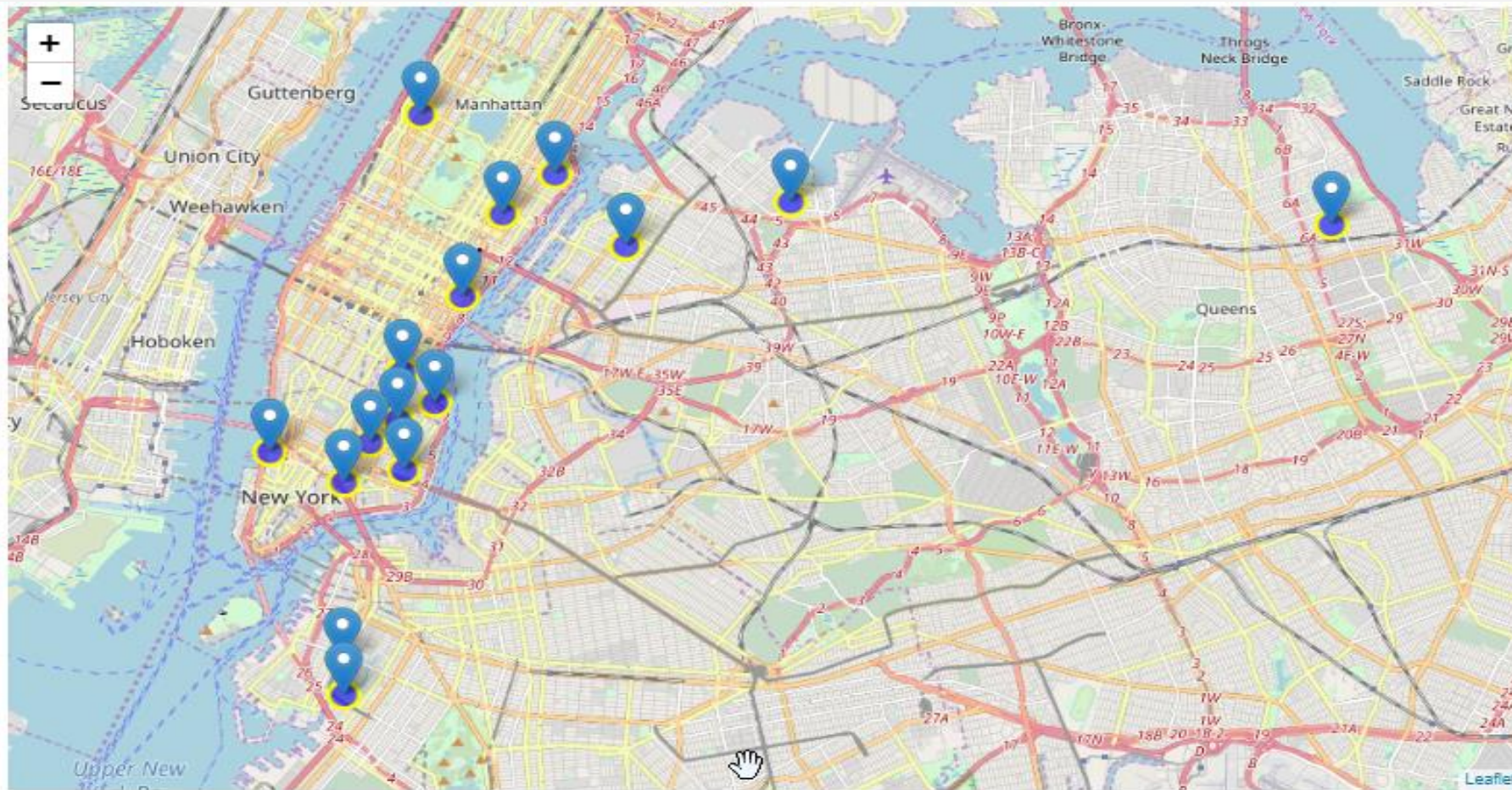
Results

4. Manhattan has the highest average rating for Greek Restaurants.



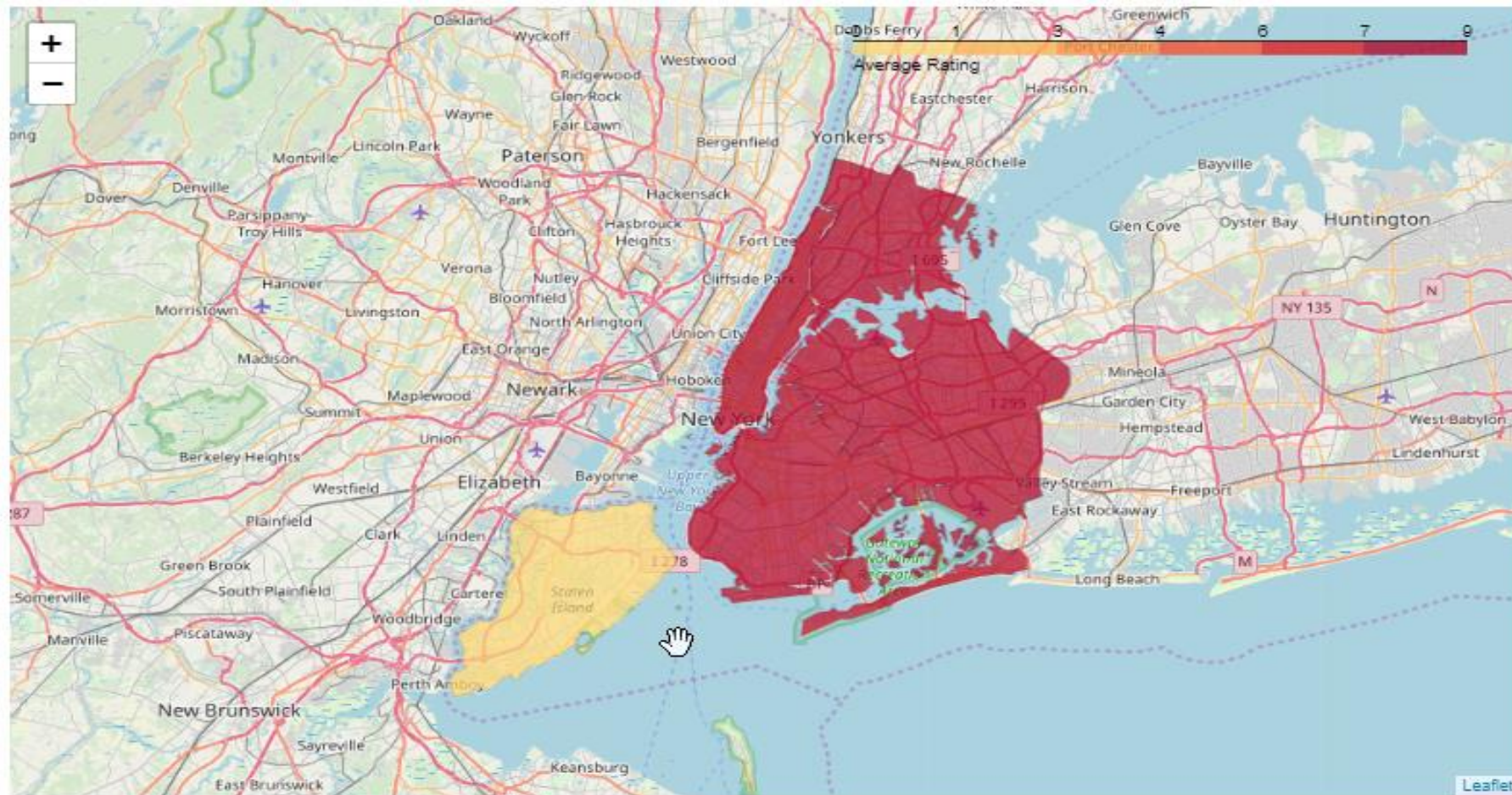
Results

5. Best neighborhoods in New York that has highest average rating for Greek Restaurants.



Results

6. Borough Choropleth map based on average rating of Greek Restaurants.



Conclusions

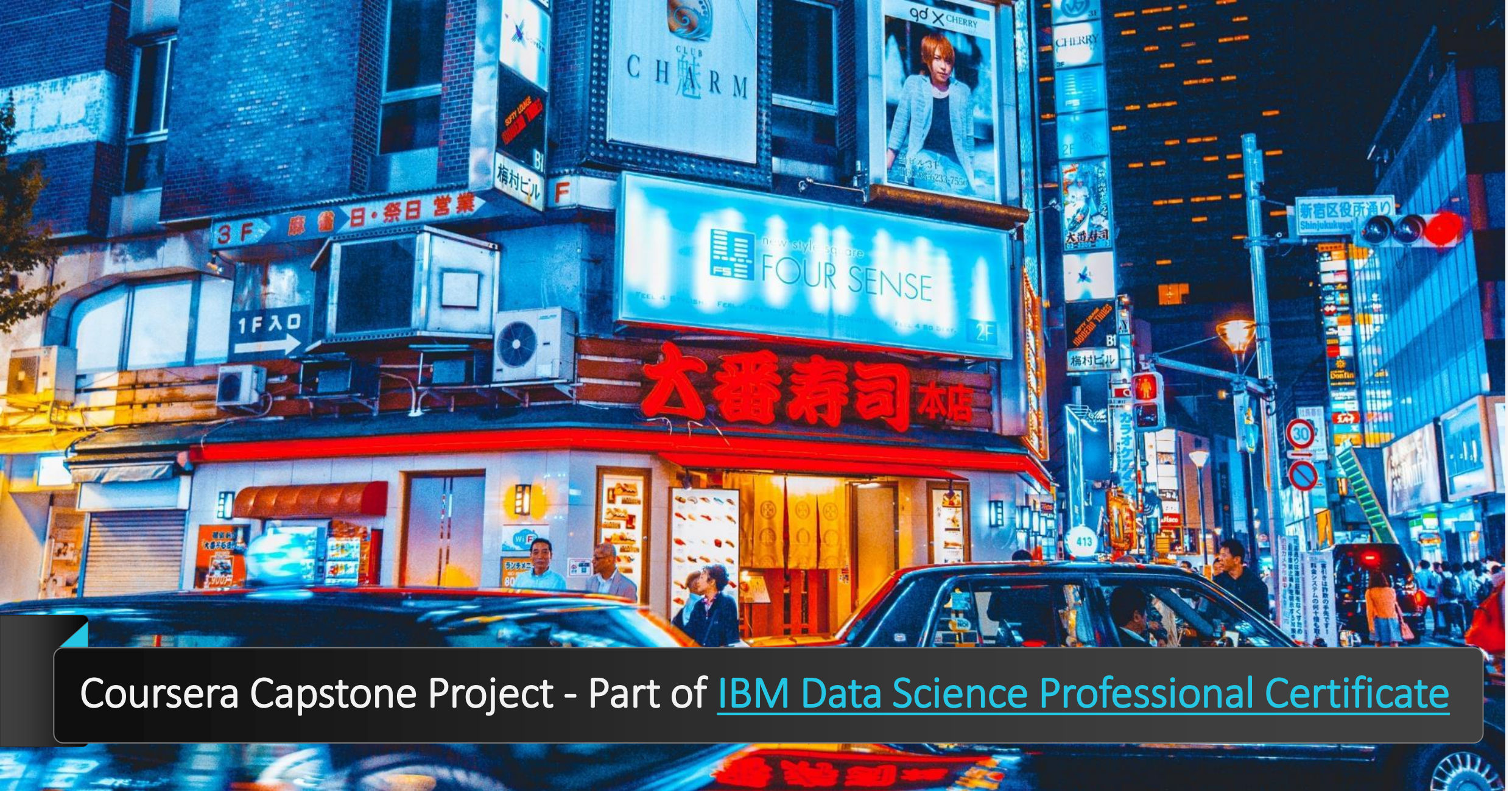
- Chinatown and Astoria in Queens and Gramercy and Stuyvesant Town in Manhattan are some of the best neighborhoods for Greek cuisine.
- Queens is the best place to stay if you prefer Greek cuisine.
- Manhattan have potential Greek Restaurant Market.
- Staten Island ranks last in average rating of Greek Restaurants.





Limitations

- The ranking is purely on basis of rating of restaurants.
- The accuracy of data depends purely depends on the data provided by FourSquare.



Coursera Capstone Project - Part of [IBM Data Science Professional Certificate](#)