

Capstone Project - The Battle of Neighborhoods

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Introduction

Project Objective

Identify areas within New York city which are best known for **Chinese restaurants**

What Questions can we solve

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

Target Audience

- Citizens from New York and Travellers from all over the world who are in New York, who are found of Chinese Cuisines.

Data Description

Sr	Data Set	Description	Used For	Source
1	New York City Data	New York City data that contains list of Boroughs, Neighbourhoods	Explore various neighbourhoods of New York city	https://cocl.us/new_york_dataset
2	Restaurant Data	Chinese restaurants in each Neighbourhoods of New York city	Identify Neighbourhoods with most Chinese restaurants	Fousquare API (Regular Call)
3	Ratings Data	Ratings for every Chinese restaurants	To identify Popular Chinese restaurants	Fousquare API (Premium Call)
4	GeoSpace data	By using this geo space data we will get the New Y`ork Borough boundaries	To visualize choropleth map based on highest ratings for Borough	https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm

Approach

- ❑ Collect the New York city data
- ❑ Using FourSquare API we will find all venues for each neighbourhood.
- ❑ Filter out all venues that are Chinese Restaurants.
- ❑ Find rating , tips and like count for each Chinese Restaurants using FourSquare API.
- ❑ Using rating for each restaurant, we will sort that data.
- ❑ Visualize the Ranking of neighbourhoods using folium library(python)

Analysis

Number of records

```
new_york_df.head()
```

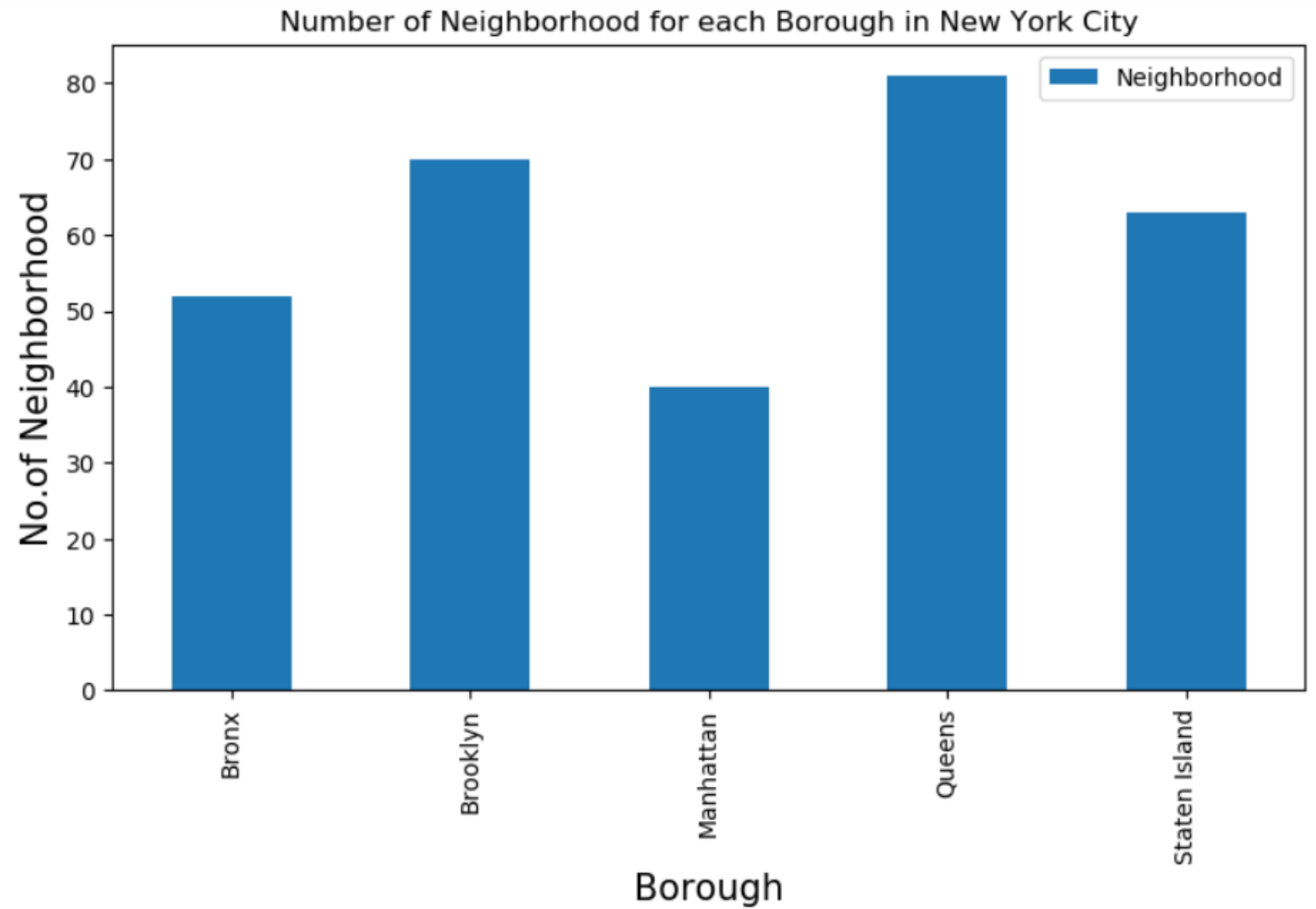
	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585

```
new_york_df.shape
```

```
(306, 4)
```

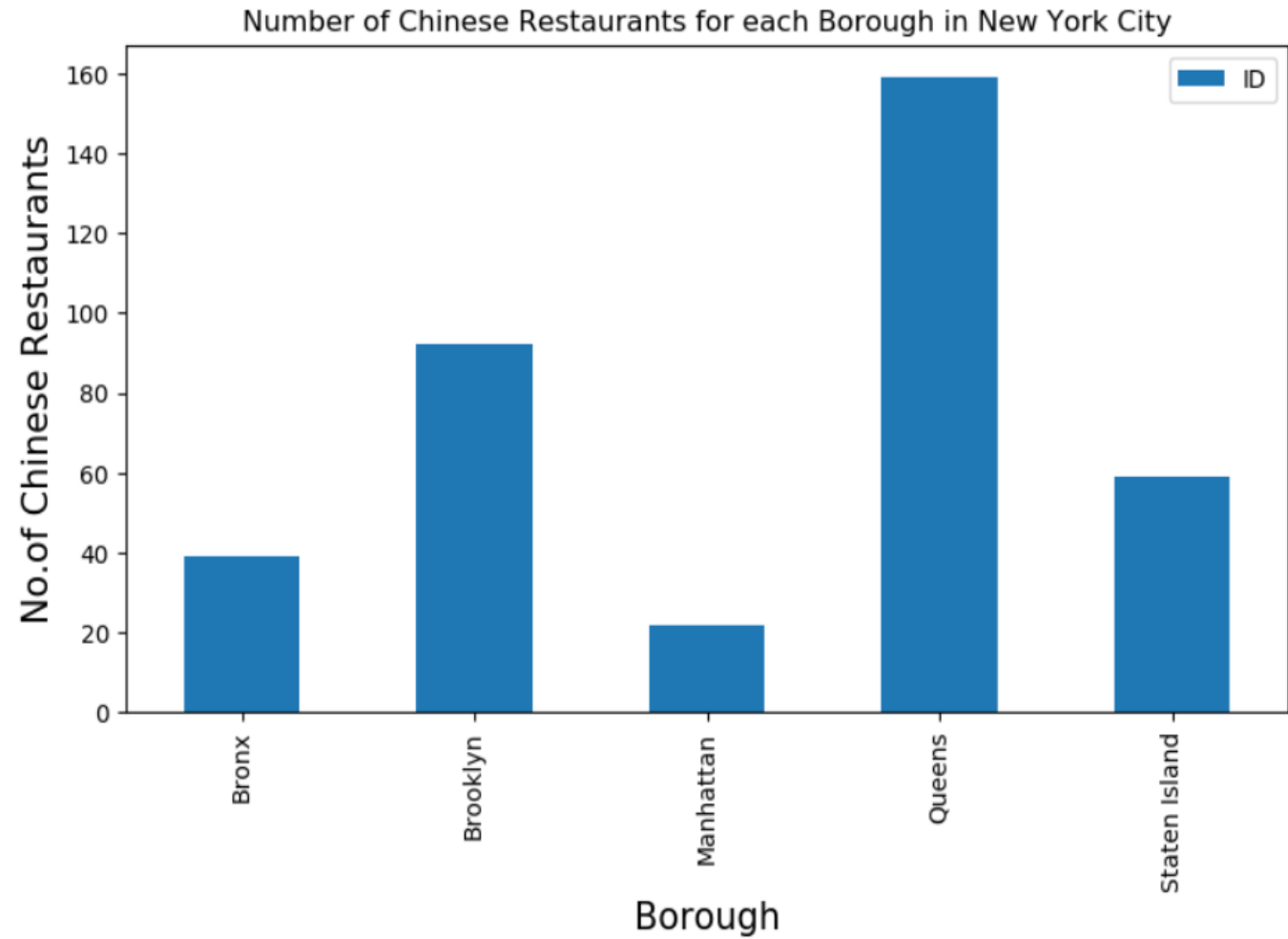
Analysis

Highest number of
neighborhoods –
Queens



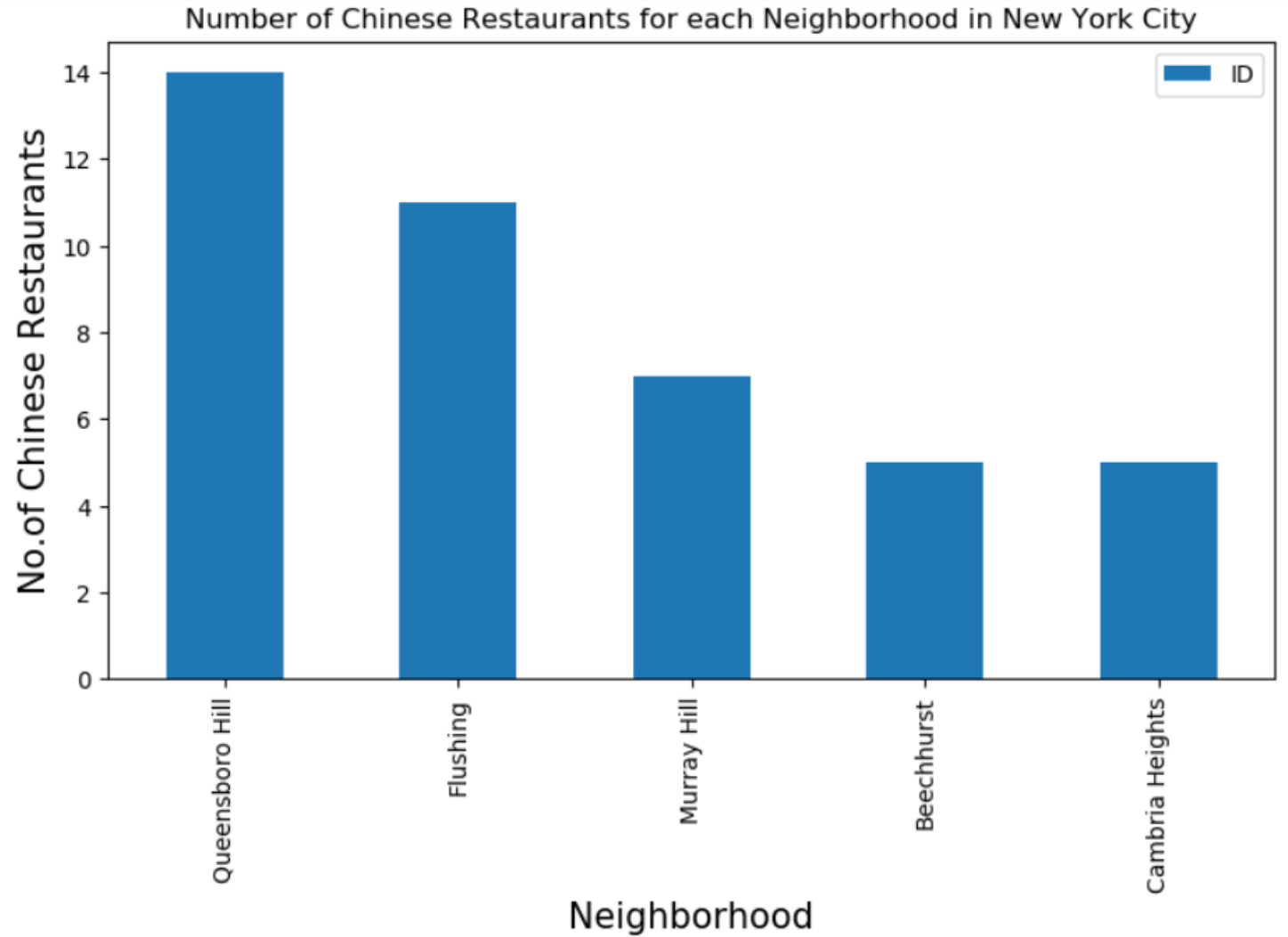
Analysis

Highest number of
Chinese restaurants –
Queens



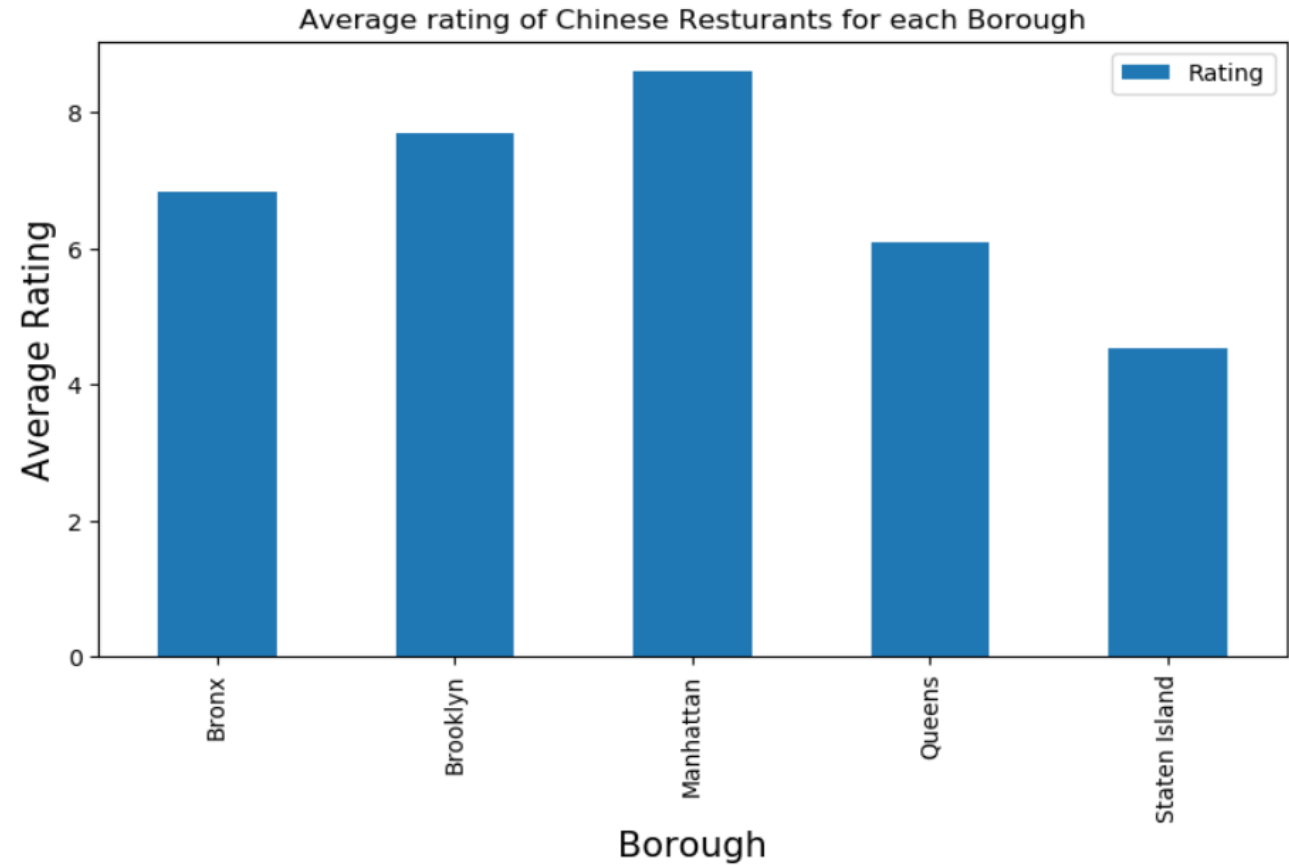
Analysis

Queensboro Hill in **Queens** has the highest number of Chinese Restaurants with a total count of 14



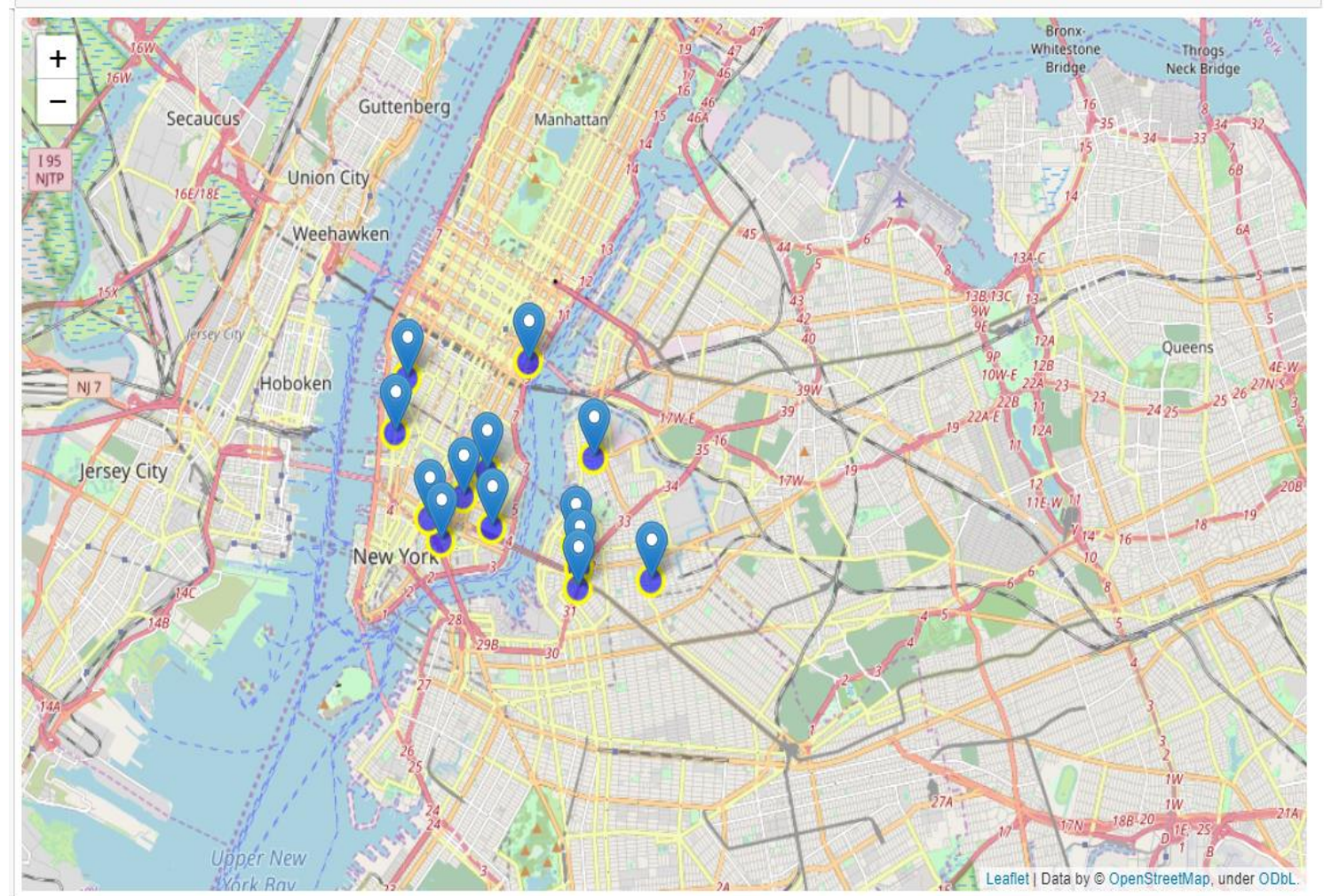
Analysis

Manhattan has the highest average rating for Chinese Restaurants



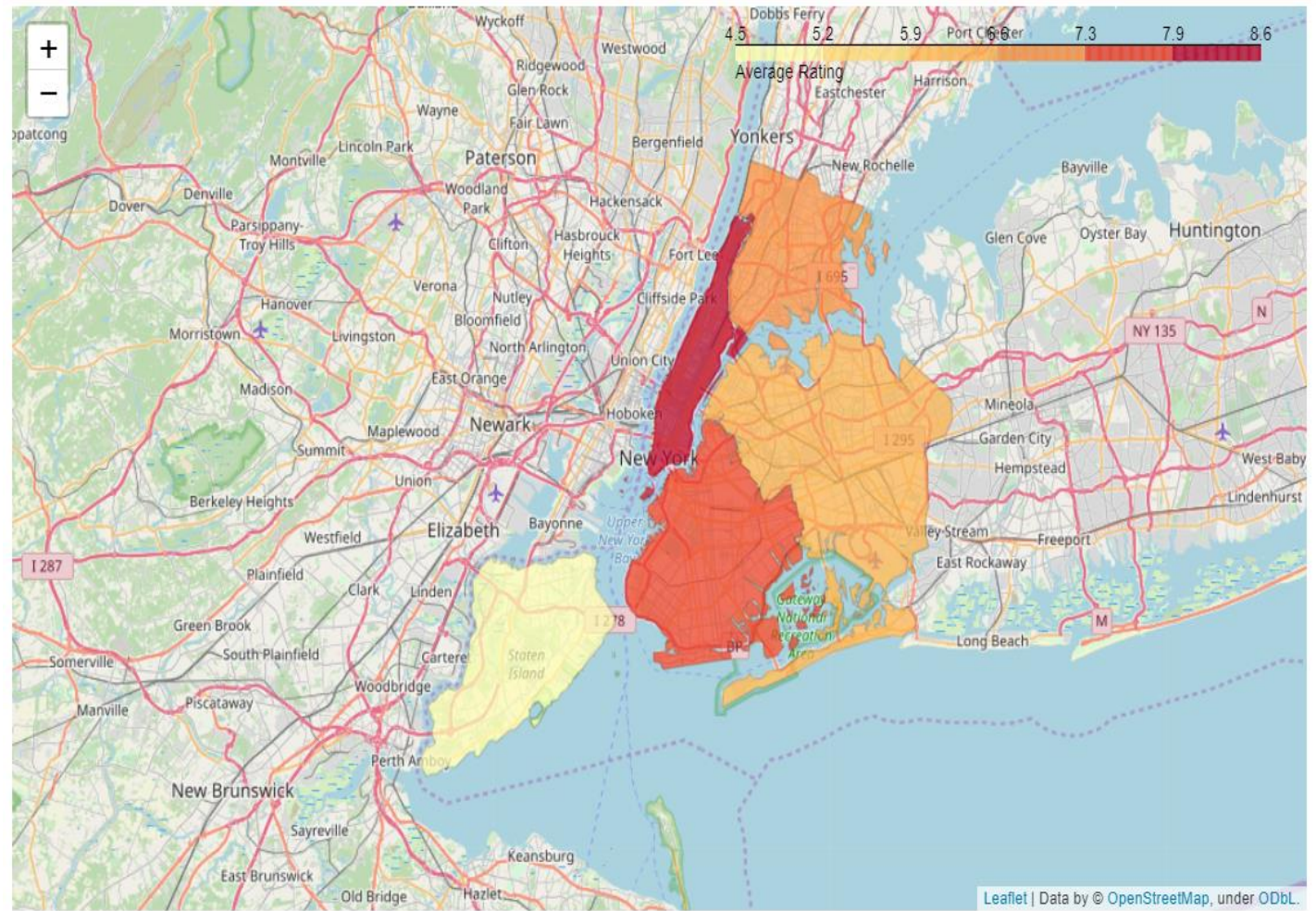
Analysis

Best neighbourhoods in New York that has **highest average rating** for Chinese Restaurants



Analysis

Borough **Choropleth** map
based on average rating of
Chinese Restaurants



Conclusion

Chelsea(Manhattan), **Noho** (Manhattan), **Greenpoint**(Brooklyn) are some of the best neighbourhoods for Chinese cuisine.

Manhattan have potential Chinese Restaurants Market

Manhattan is the best place to stay if you prefer Chinese Cuisine