

# Capstone Project

Open a Japanese Restaurant in New York City



# Problem

This project explores the best locations for Japanese restaurants throughout the New York City.

In particular, the location of the restaurant is one of the most important factors that will affect whether it will have success or a failure. Therefore, this project would answer the questions

"If someone is looking to open a new Japanese restaurant in the New York City, where is the best area for opening a new Japanese Restaurant?"

# Data

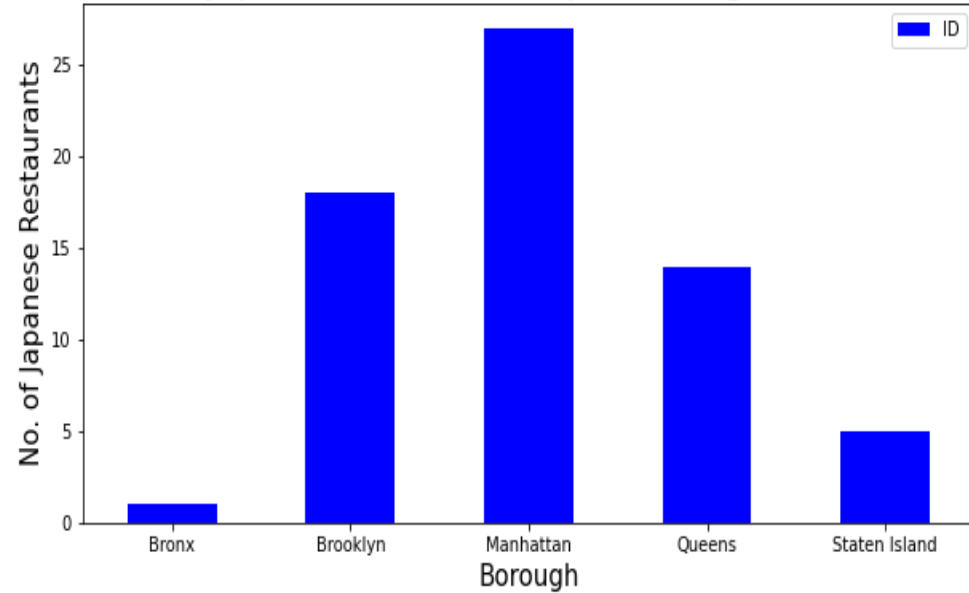
- New York City data containing the neighborhoods and boroughs.
- Venue data, particularly data related to restaurants.
- Latitude and longitude of those neighborhoods.
- New York City data containing the neighborhoods and boroughs will be obtained from the open data source: [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset).

# Methodology

- Data will be collected from [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset) and cleaned and processed into a data frame.
- FourSquare be used to locate all venues and then filtered by Japanese restaurants. Ratings, tips, and likes by users will be counted and added to the data frame.
- Data will be sorted based on rankings.
- Finally, the data be will be visually assessed using graphing from Python libraries.

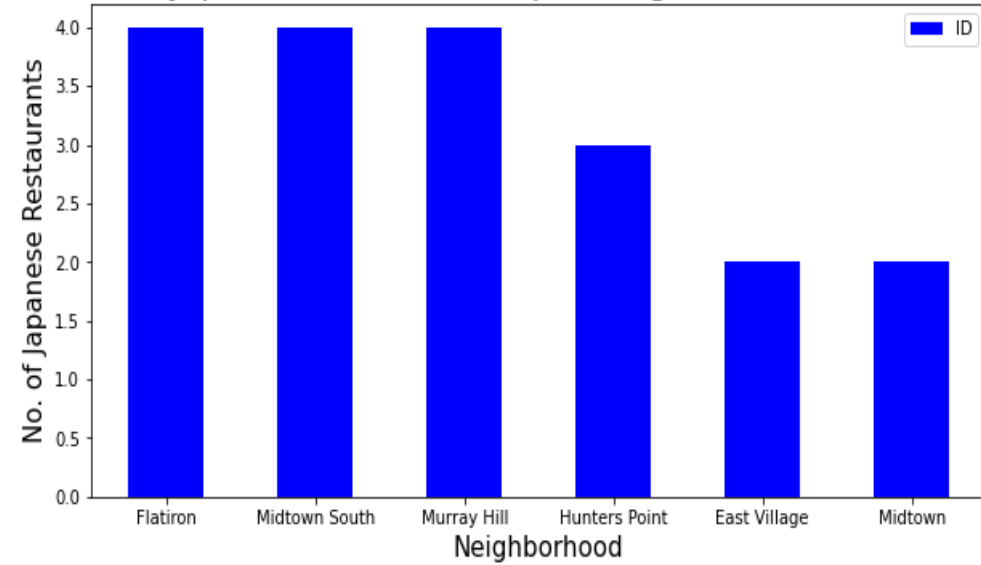
# Results

Japanese Restaurants per Borough: NYC



Manhattan have the highest number of Japanese restaurants.

Japanese Restaurants per Neighborhood: NYC



This is the top 6 neighborhoods, Flatiron has the highest number of Japanese restaurants in New York City.

# Results

## Resturant with maximum Likes

```
japanese_rest_stats_ny.iloc[japanese_rest_stats_ny['Likes'].idxmax()]
```

```
Borough      Manhattan
Neighborhood  Midtown South
ID            51e8ce40498ea1fb0180efb2
Name          Izakaya MEW
Likes         1054
Rating        8.8
Tips          266
Name: 47, dtype: object
```

## Resturant with maximum Ratings

```
japanese_rest_stats_ny.iloc[japanese_rest_stats_ny['Rating'].idxmax()]
```

```
Borough      Manhattan
Neighborhood  East Village
ID            5b3805910dd31f002409405a
Name          Suki Curry
Likes         57
Rating        9.4
Tips          15
Name: 27, dtype: object
```

## Resturant with maximum Tips

```
japanese_rest_stats_ny.iloc[japanese_rest_stats_ny['Tips'].idxmax()]
```

```
Borough      Manhattan
Neighborhood  Midtown South
ID            51e8ce40498ea1fb0180efb2
Name          Izakaya MEW
Likes         1054
Rating        8.8
Tips          266
Name: 47, dtype: object
```

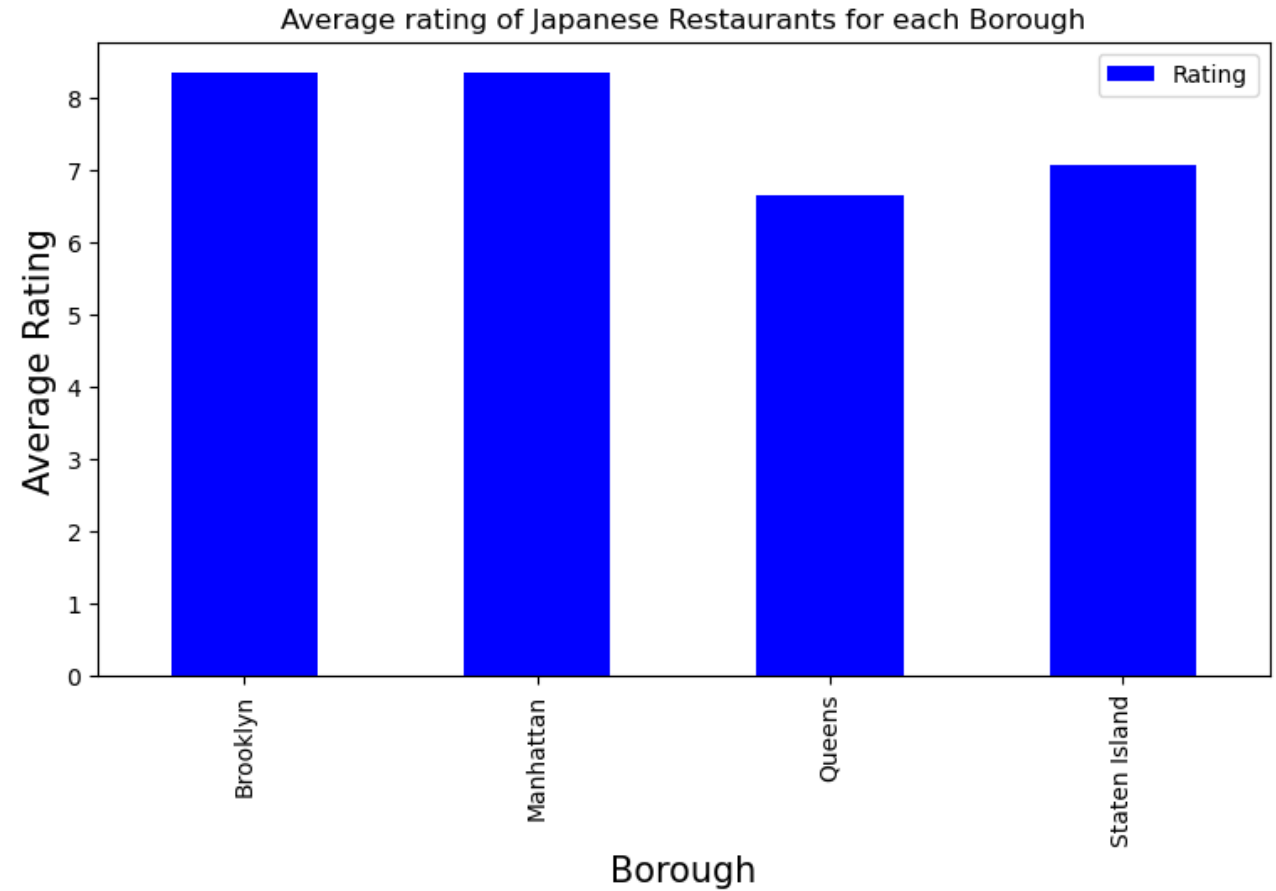
	Neighborhood	Average Rating
10	East Village	9.35
8	Cobble Hill	9.10
30	Park Slope	9.00
29	North Side	8.90
9	Downtown	8.90
1	Boerum Hill	8.80
22	Lindenwood	8.70
34	Soho	8.70
11	Fort Greene	8.60
36	Upper East Side	8.50

There are the top neighborhoods with the highest average ratings of Japanese restaurants.

# Results

	Borough	Average Rating
0	Brooklyn	8.360000
1	Manhattan	8.352381
3	Staten Island	7.080000
2	Queens	6.655556

These are the average ratings of Japanese Restaurants for each Borough



We will consider all the neighborhoods with average rating greater or equal 6.0 to visualize on a map



# Conclusion

- Brooklyn and Manhattan have the best rated Japanese restaurants.
- Manhattan and Brooklyn are the best locations for Japanese restaurants in New York City.
- Recommend to you investor to open a Japanese restaurant in Brooklyn due to Brooklyn has multiple neighborhoods with average ratings exceeding 7.0

