# Presentation –
# The Battle of Neighborhoods

Part 2

# Introduction

- The City of New York, usually called either New York City (NYC) or simply New York (NY), is the most populous city in the United States.
- New York City is home to more than 3.2 million residents born outside the United States, the largest foreign-born population of any city in the world. Asians constituted the fastest-growing segment of the city's population between 2000 and 2010;
- New York contains the highest total Asian population of any U.S. city proper.
- The New York City borough of Queens is home to the state's largest Asian American population in the United States and is also the most ethnically diverse urban area in the world.

# Introduction – continued

- A community numbering 20,000 Korean-Korean (Chaoxianzu or Joseonjok) is centered in Flushing, Queens. Koreans made up 1.2% of the city's population.

- New York City's food culture includes an array of international cuisines influenced by the city's immigrant history.

- Korean and other Asian restaurants, sandwich joints, trattorias, diners, and coffeehouses are ubiquitous throughout the city.

- The city is home to "nearly one thousand of the finest and most diverse haute cuisine restaurants in the world", according to Michelin.

# Data

In this project, we will list and visualize the neighborhoods with
good Korean restaurants.

• 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.

Korean restaurants in each neighborhood of new york city

Data source : Fousquare API

# Data - continued

Description : By using this api we will get all the venues in each neighborhood. We can filter these venues to get only Korean resturants.

• 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

# 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 Korean Resturants
- Find rating , tips and like count for each Korean Resturants using FourSquare API
- Using rating for each resturant, we will sort that data
- Visualize the Ranking of neighborhoods using folium library(python)

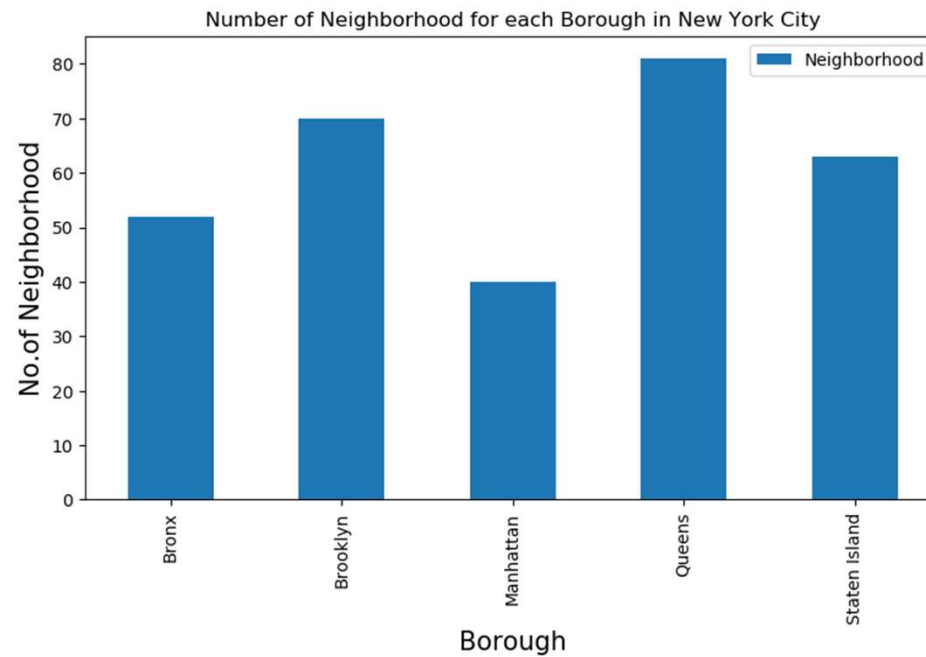# Questions that can be asked using the datasets noted earlier

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

# 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.
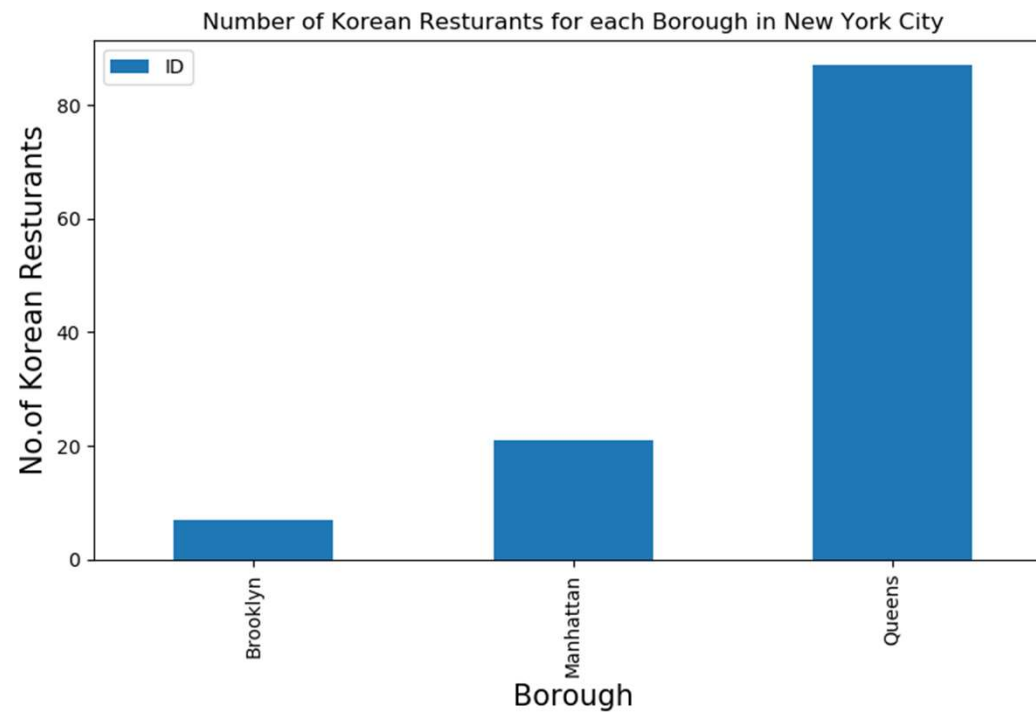- folium to visualize the results on a map

# Results

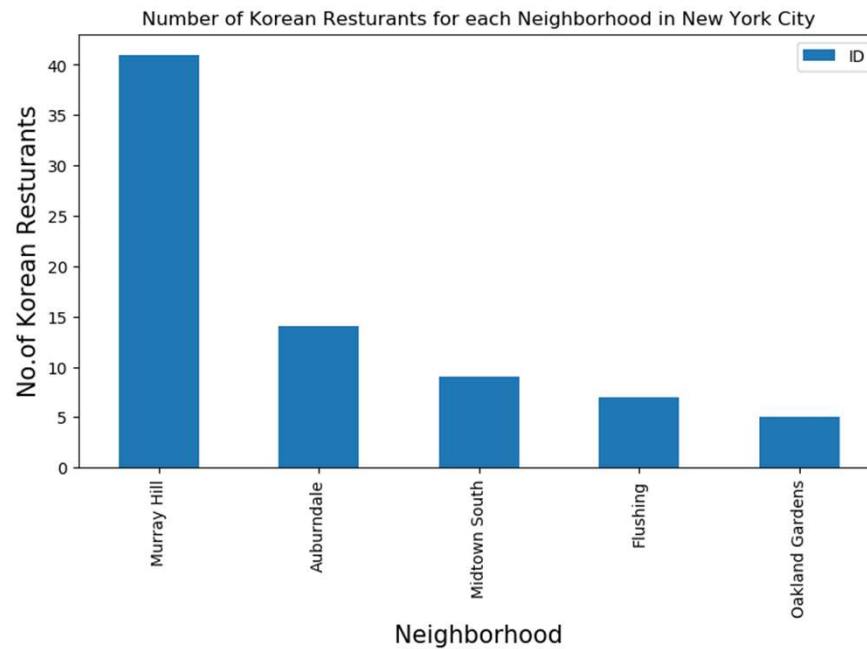1. We see that Queens has the highest number of Neighbourhoods.



Number of Neighborhood for each Borough in New York City

# Results – continued

2. Also Queens has the highest number of Korean Restaurants.



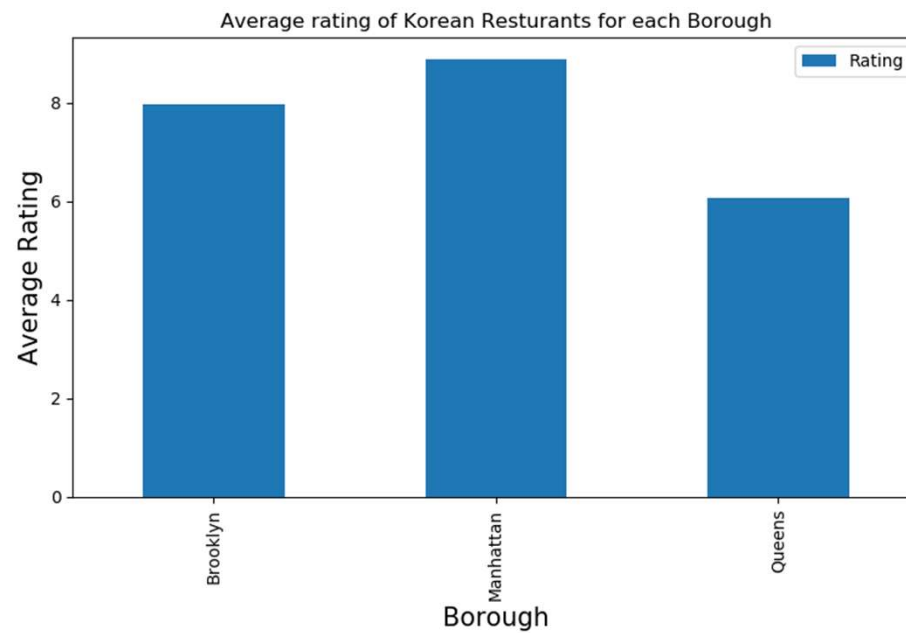Number of Korean Resturants for each Borough in New York City

# Results – continued

3. Murray Hill has the highest number of Korean Restaurants with a total count of 41 - with 36 restaurants in Queens and 5 in Manhattan
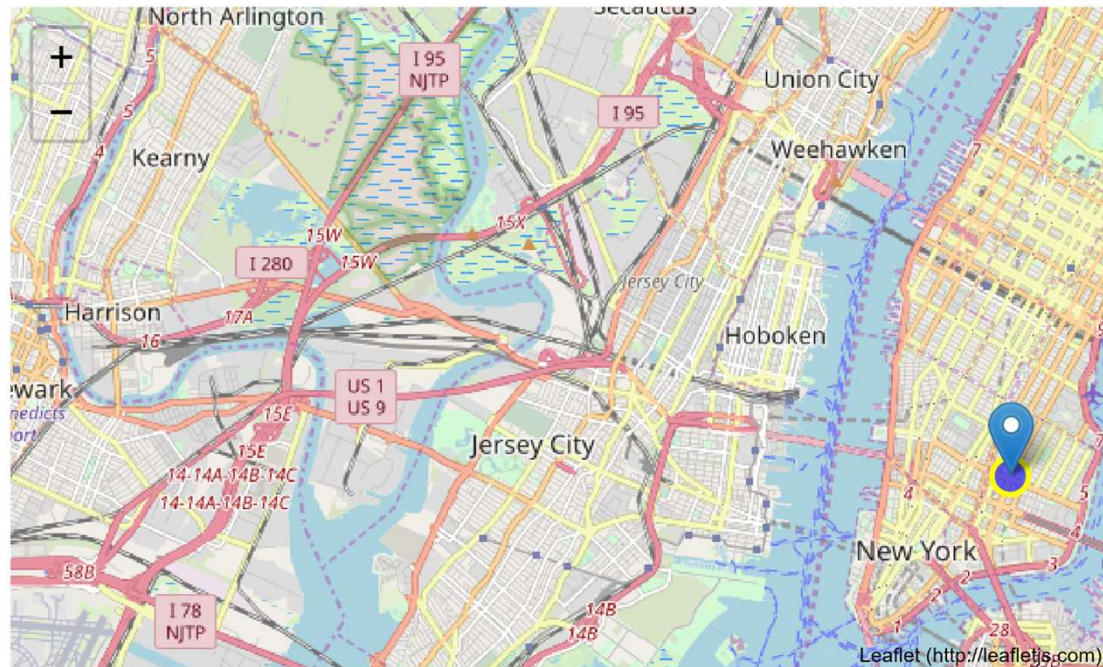


Number of Korean Resturants for each Neighborhood in New York City

# Results – continued

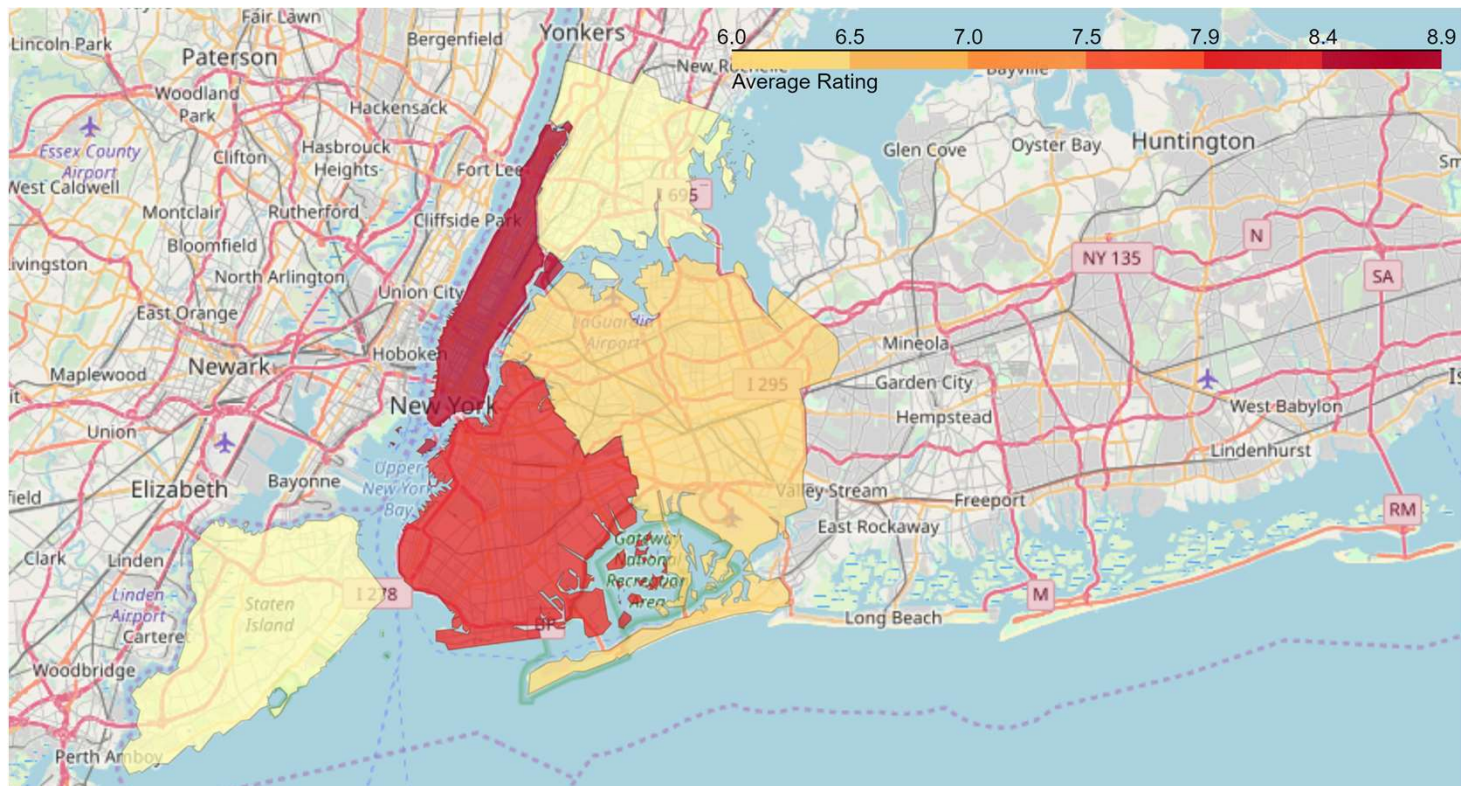4. Manhattan has the highest average rating for Korean Restaurants.

# Results – continued

5. Best Neighborhood for Korean Restaurants

# Results – continued

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

# Conclusions

- Noho (Manhattan), East Village (Manhattan), Midtown South (Manhattan) are some of the best neighborhoods for Korean cuisine.

- Queens have potential Korean Resturant Market.

- Staten Island and Bronx do not have any Korean Resturants.

- Manhattan is the best place to stay if you prefer Korean Cuisine.

# Limitations

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