

# Searching for Chinese Food in New York City

Battle of the Neighborhoods Capstone Project

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# Finding Chinese Food in NYC

- **Objective:** Explore the many Neighborhoods of New York City to identify and visualize the many and or best Chinese restaurants.
- **Questions To Be Answered:**
  - Which New York City neighborhood has the most Chinese restaurants?
  - Which Neighborhood has the highest rated Chinese restaurants?
  - Where to live in New York City if you enjoy Chinese food?
- **Potential Interested Parties:**
  - Anyone who loves good Chinese food.
  - Asian American's who are visiting or looking to relocate to New York City.
  - Restauranteurs or investors who are looking to invest in or open a Chinese restaurant.

# BACKGROUND

- New York City (NYC) is the most densely populated major city in the U.S. with 8.4 million residents as of July 2018.
- The City is comprised of 5 Boroughs (Bronx, Brooklyn, Queens, Manhattan, and Staten Island) and hundreds of distinct neighborhoods.
- New York contains the highest total Asian population of any U.S. city proper, exceeding more than one million.
- Given its diverse culture, NYC's food scene includes an array of international cuisines influenced by its immigrant history. They range from Central and Eastern European, Middle Eastern, Indian, Italian, and Chinese to name just a few.

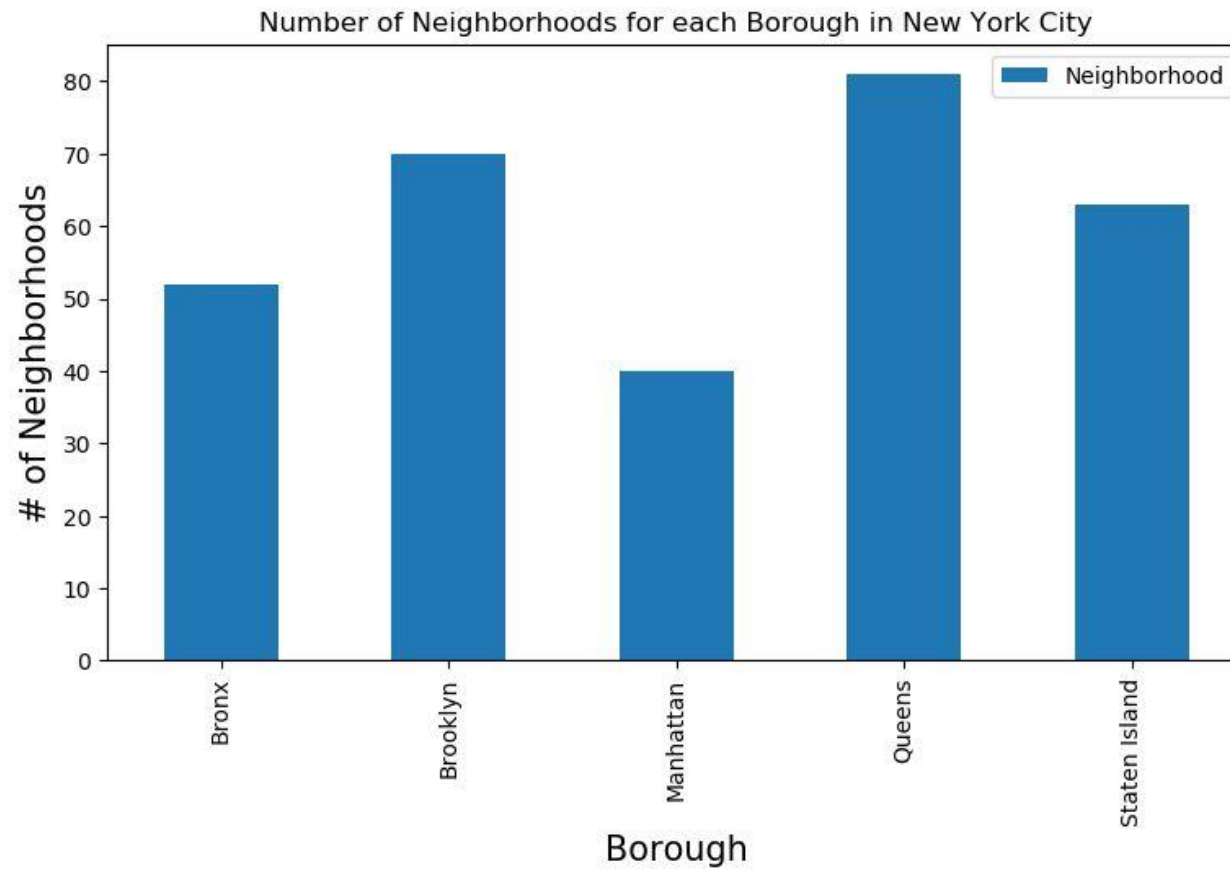
# DATA ACQUISITION

1. New York City data that contains a list of Boroughs and Neighborhoods along with their latitude and longitude coordinates
  - a) Data Source: [https://cocl.us/new\\_york\\_dataset.com](https://cocl.us/new_york_dataset.com)
  - b) Description: Data set to explore various Neighborhoods of NYC
2. Gather and explore Chinese restaurants in each NYC Neighborhood
  - a) Data Source: Foursquare API
  - b) Description: Utilize API to identify and filter venues for Chinese restaurants and their ratings.
3. GeoSpace Data
  - a) Data Source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
  - b) Description: Use geo space data to identify the New York Borough boundaries which will help in visualizing the results on a map of NYC

# Approach

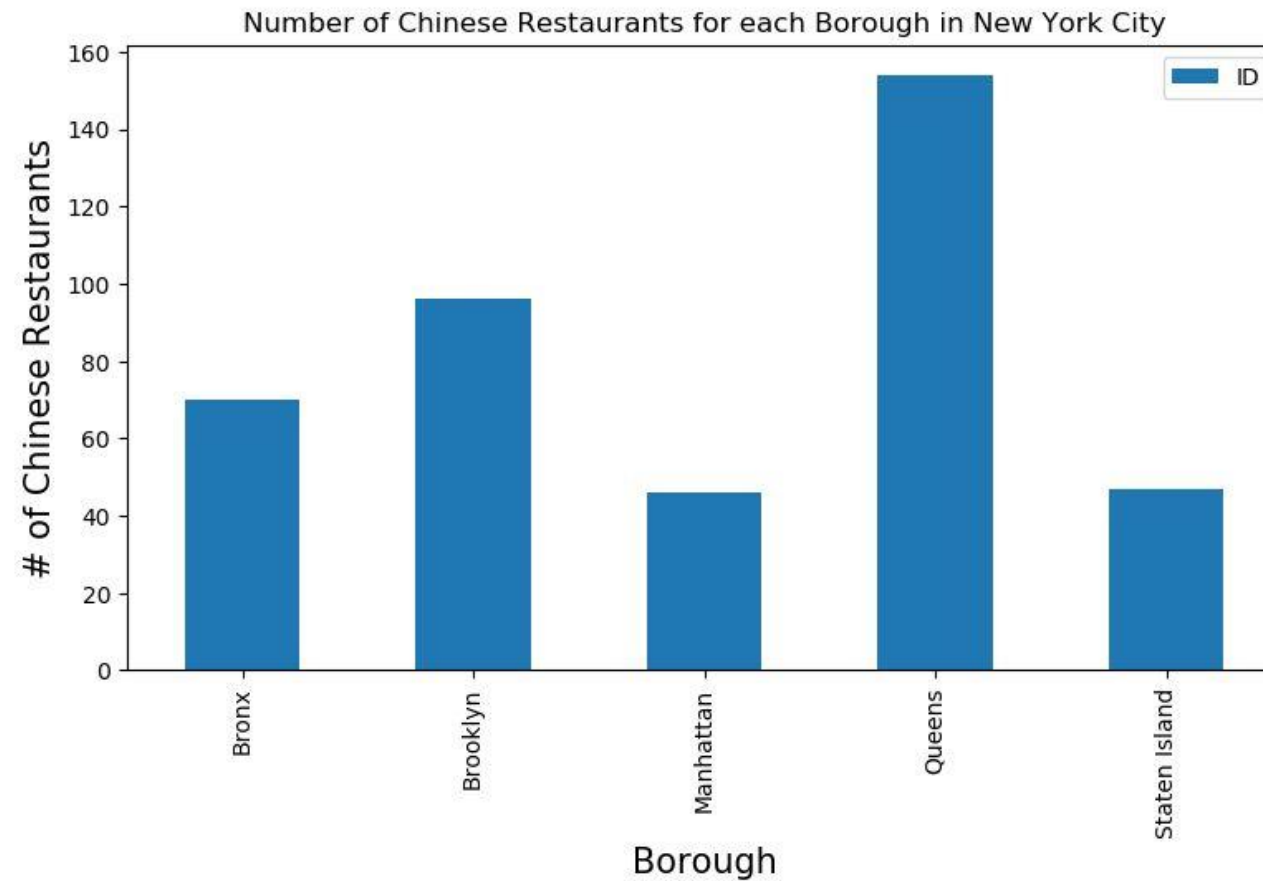
- Collect the necessary data from various sources as outlined in the data acquisition section.
- Utilize the Foursquare API to acquire venues in NYC Neighborhoods to filter for Chinese restaurants and their respective ratings.
- Scrape, filter and sort the data to assist in assessing the data and its results.
- Review and visualize the data results to form observations and conclusions.

# Neighborhoods in NYC



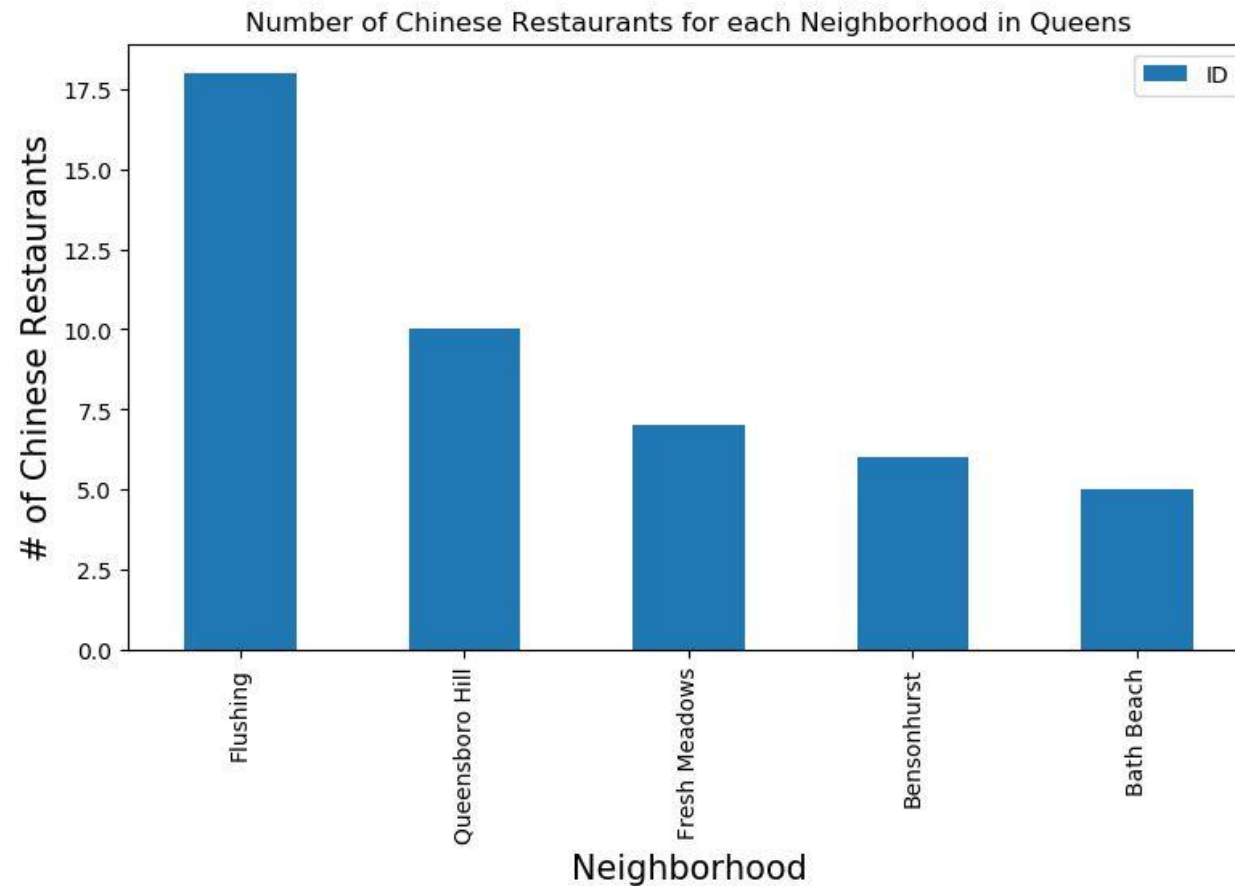
Queens, NY has the greatest number of Neighborhoods (80)

# Chinese Restaurants By Borough



Queens, NY has the greatest number of Chinese restaurants (154)

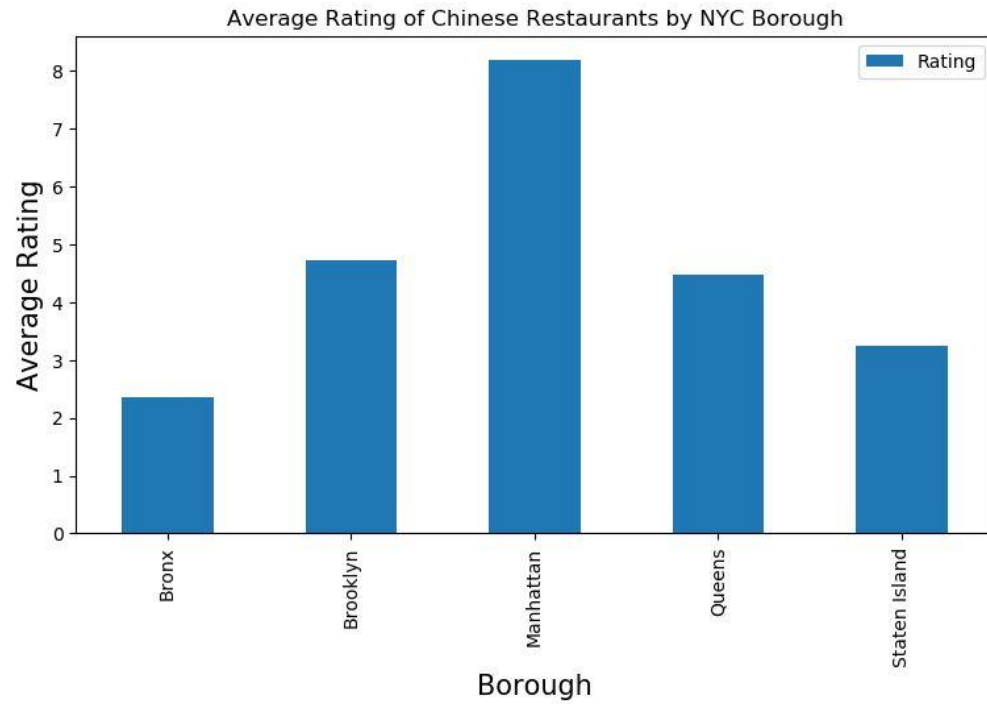
# Chinese Restaurants By Queens Neighborhood



Flushing, Queens is the neighborhood with the greatest number of Chinese restaurants (18)



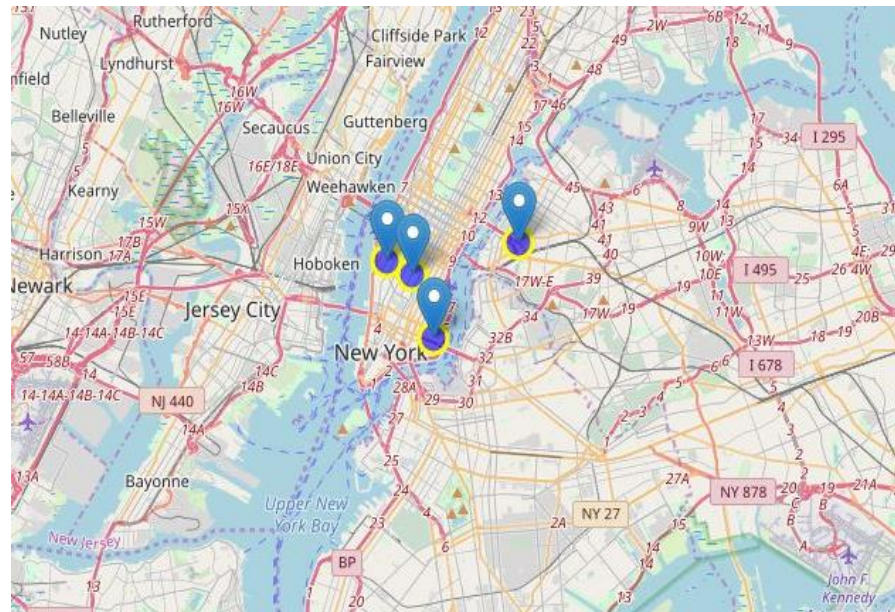
# Avg. Rating of Chinese Restaurants By NYC Borough



Borough	Average Rating
Manhattan	8.2
Brooklyn	4.7
Queens	4.5
Staten Island	3.2
Bronx	2.4

# Avg. Rating of Chinese Restaurants By NYC Neighborhood

Neighborhood	Average Rating
Chelsea	9.2
Flat Iron	9.2
Long Island City	9.1
Lower East Side	9.0



# Conclusions

## **What We Learned From The Data:**

- New York City has **306** different Neighborhoods across the five Boroughs with **413** different Chinese restaurants.
- **Queens** is the Borough with the greatest number of Neighborhoods (80) and Chinese restaurants (154).
- **Flushing, Queens** is the Neighborhood with the most Chinese restaurants (18).
- The highest rated Chinese restaurant is **Buddakan** in **Chelsea, Manhattan** with a **9.2** rating.
- The Borough with the highest average rating is **Manhattan** with **8.2** and the Borough with the lowest rating is the Bronx with 2.4.

## **How to Apply the Data Results:**

- If you are in NYC and looking for good Chinese food, then you will want to seek out Buddakan in Chelsea, Manhattan.
- If you are moving to the NYC area and having easy access to multiple Chinese restaurants is an important criterion, then you might consider Flushing, Queens as your future homestead.
- Restauranters may consider Queens as a potential location for their next Chinese restaurant due to its large neighborhood count or from a competitive standpoint, they may want to explore the Bronx due to its low average rating resulting in less competition.