

The Battle of Neighborhoods

Introduction and Business Problem

1. Introduction

New York City is very known for having a very diverse community. It is also known as one of the most diverse cities in the entire world. Food plays a big role, if someone travels to New York he/she could experience variety of food diversity too ranging from European food style to Asians. The city consists of 5 Boroughs, namely: Queens, Brooklyn, Bronx, Manhattan, and Staten Island.

All of them provides the varying food culture and diverse. As the city grows more and more popular because of its diversity, many people from around the world wish to visit this diverse city. Including the most populated country in the world, China. As of 2017, there are 893,697 total population of Chinese ethnicity in the City itself. Hence, it is known that there are large Chinatowns in Brooklyn, Queens, and Manhattan. This is an interesting study to update the New Yorkers with new surveys of which area of the city provides various Chinese food as many Chinese tourists would visit the city to taste and compare their hometown food variation.

Business Problem

According to the NY Times, the number of Chinese visitors to New York City continues to rise each year. As in 2018, the visitors (Non-American Chinese Ethnic people) reached the number of 65.2 million people as the ninth straight annual increase. This incredible huge number of course will interact more of these tourists to taste and compare the Chinese cuisines in NYC to their hometown in China / Asian countries with huge Chinese population. Hence, a survey of which part of NYC to provide more Chinese restaurants will be beneficial for these Chinese tourists to travel and taste NYC Chinese style cuisine. This experiment will help to provide such information for the Chinese tourist in need.

2. Data

The NYC Data contains information that include borough, latitudes, longitudes

All Data can be acquired using the FourSquare API

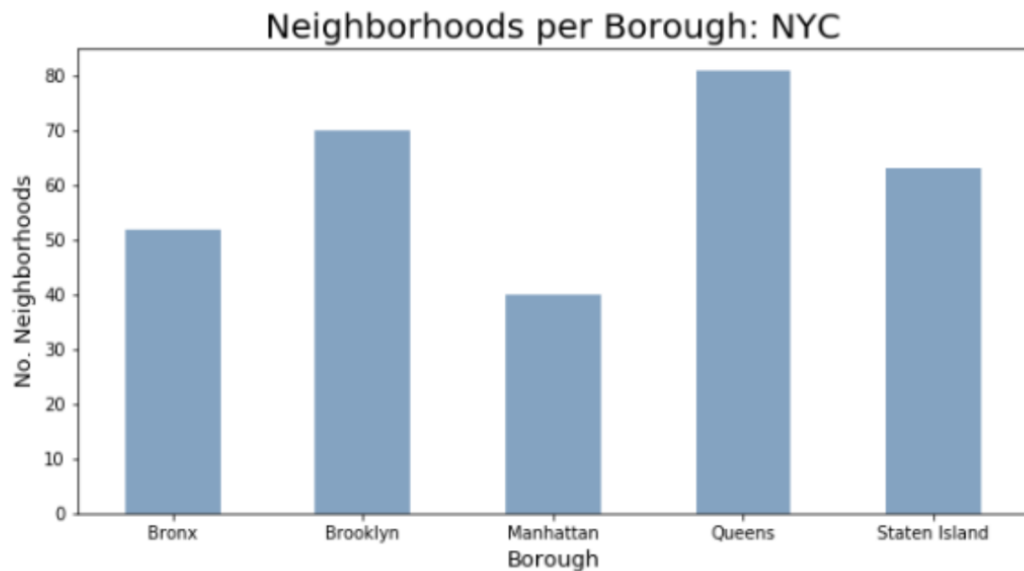
The main data derives from <https://data.cityofnewyork.us/Health/Chinese-Restaurants/w3z6-mr9h>

A dataframe is created which includes Neighborhood, Name, ID, and Borough

A new Data Frame is created using FourSquare API

2.1. Data Preparation

	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



	Borough	Neighborhood	ID	Name
257	Staten Island	Prince's Bay	4bb7d282b35776b0b83dc801	Island Taste
258	Brooklyn	Madison	4be32bd7b02ec9b61fc34ec0	win hing
259	Bronx	Bronxdale	4c3f7f2eda3dc928b8f6c5b9	Peking Kitchen
260	Bronx	Allerton	4bc11181abf495219f7dc093	Li's Kitchen
261	Queens	Hammels	4c72ad2bad69b60cb31b84b9	301 Chinese Resturant

Methodology:

The data is collected from <https://data.cityofnewyork.us/Health/Chinese-Restaurants/w3z6-mr9h> which is then cleaned and transformed into a dataframe

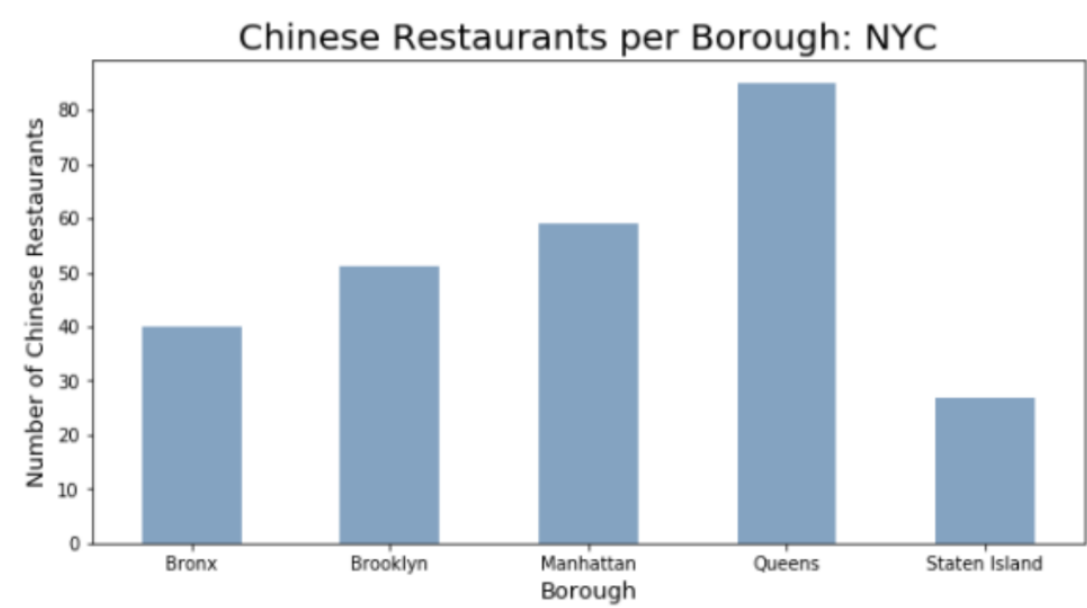
Using the Foursquare API, the location of Chinese restaurants are pinpointed

The data is then sorted and visualized

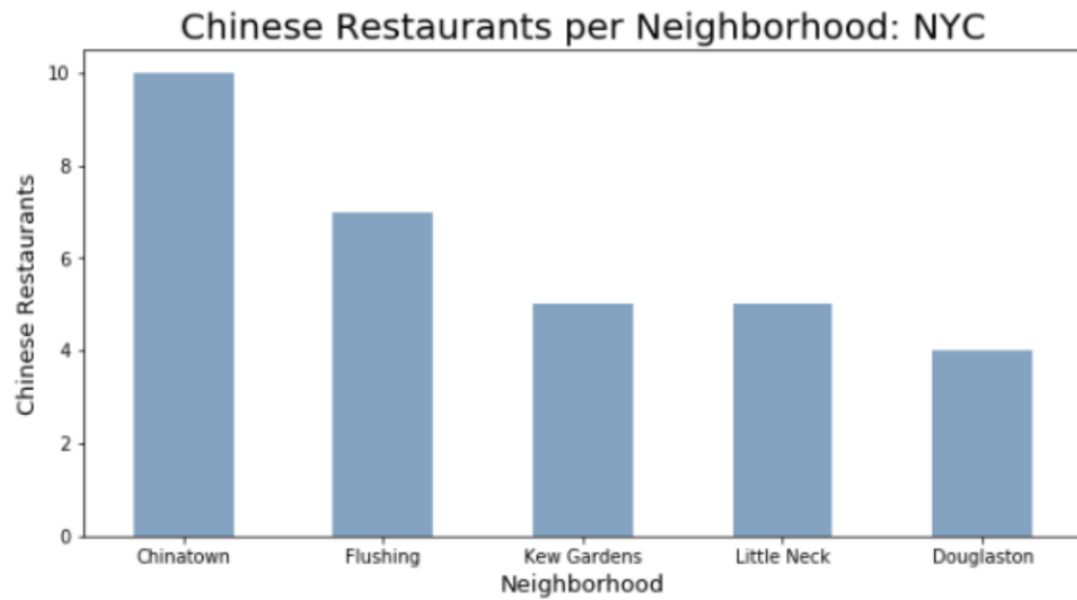
Results:

There are 269 Chinese restaurant spreads throughout 5 boroughs of NYC. Queens Borough has the highest number of Chinese restaurants at 83.

	ID	Name
Borough		
Bronx	46	46
Brooklyn	56	56
Manhattan	60	60
Queens	83	83
Staten Island	24	24



The neighbourhood with the greatest number of Chinese restaurants is Chinatown in the Manhattan Borough with 10 in number.



Discussion and Conclusion:

1. Manhattan and Brooklyn have the highest Average ratings of Chinese restaurants

2. Manhattan is known to be populated with most real estates and restaurants, hence the number of Chinese restaurant with the possibility of being liked is higher
3. The best Chinese Food in NYC is Buddakan, in Chelsea, Manhattan with the ratings of 9.2 and 1473 likes