

Capstone project
Battle of Neighbourhoods
Chinese restaurants in New York
Mikhail SILAEV

Introduction

Problem Statement

- Where are the most popular Chinese cuisine restaurant are located in New York City?
- Which location is optimal for opening the new Chinese restaurant in New York City ?

Target audience and importance

- NY locals and visitors who like Chinese cuisine.
- Potential investors who think of starting the restaurant business in NY.

Data

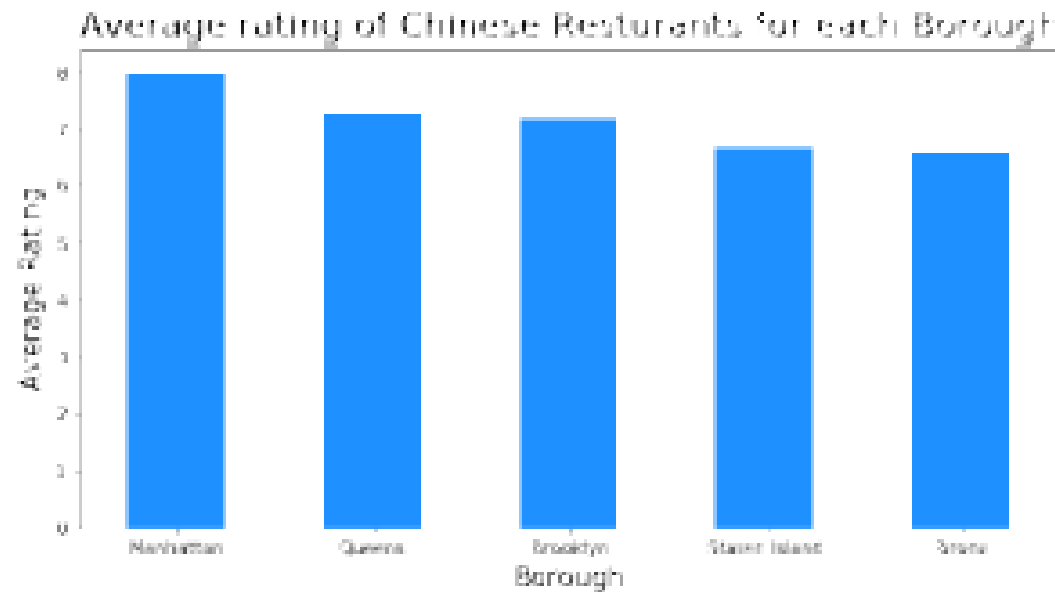
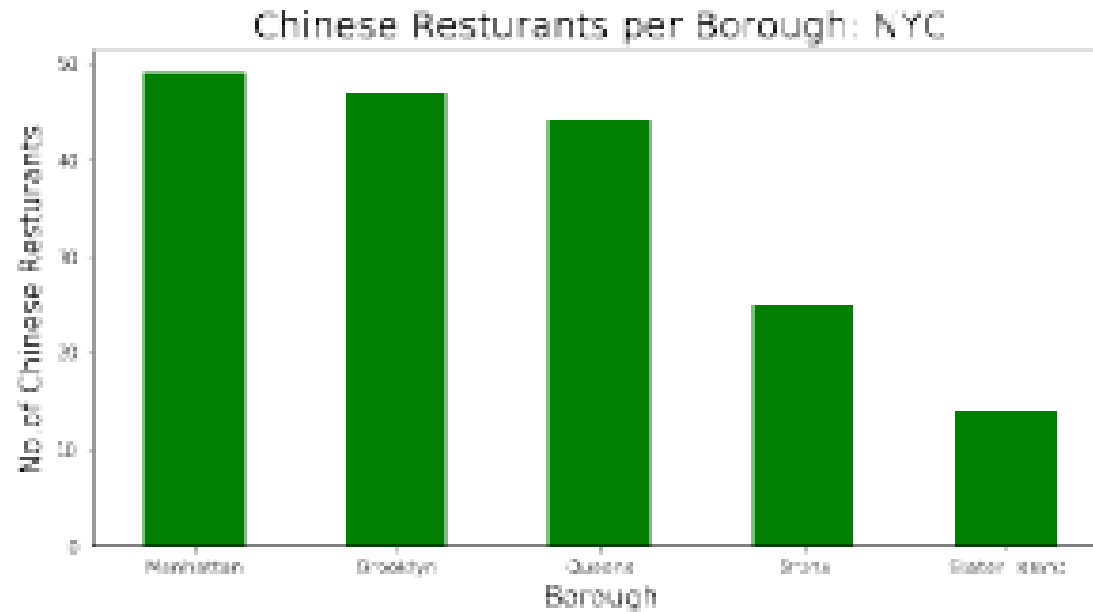
- Data on New York City neighborhoods, boroughs to include boundaries, latitude, longitude, restaurants, and restaurant ratings and tips are required.
- New York City data containing the neighborhoods and boroughs, latitudes, and longitudes will be obtained from the data source:
https://cocl.us/new_york_dataset
- New York City data containing neighborhood boundaries will be obtained from the data source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
- All data related to locations and quality of Italian restaurants will be obtained via the FourSquare API utilized via the Request library in Python.

Methodology

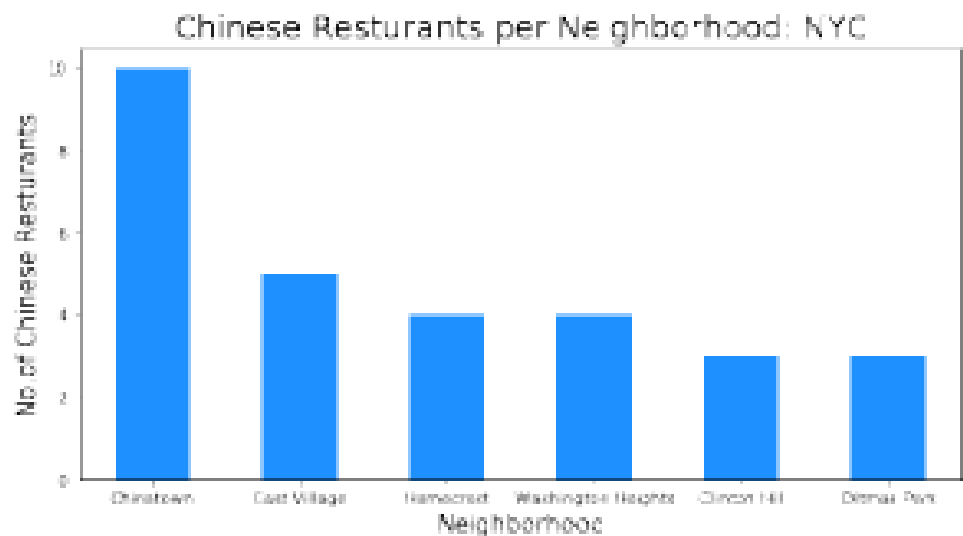
- We will download the data from https://cocl.us/new_york_dataset and cleaned transform it into a dataframe.
- We will use FourSquare to find Chinese restaurants and get their ratings, tips, and likes. This information will be added to the dataframe.
- Data will be presented using different visualisation tools available in Python.

Results

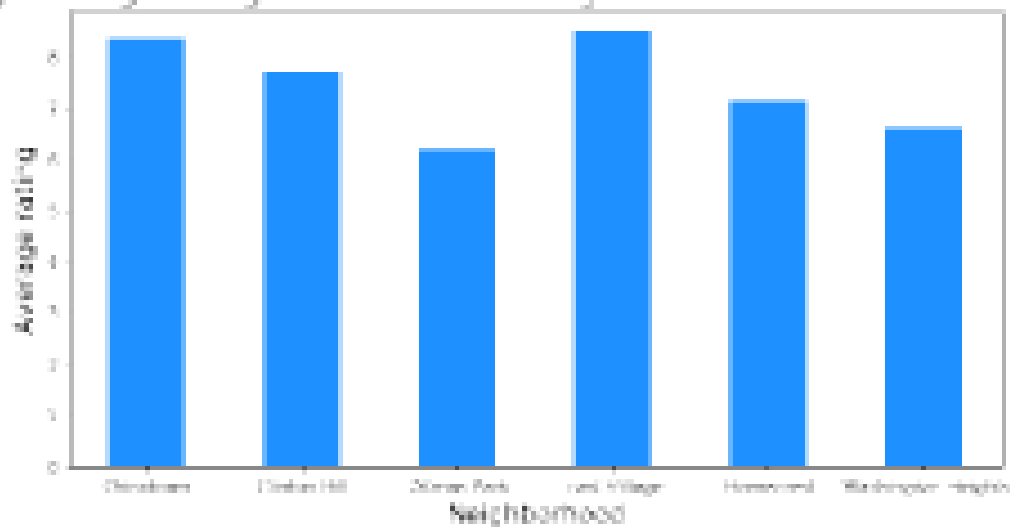
Characteristics of the boroughs



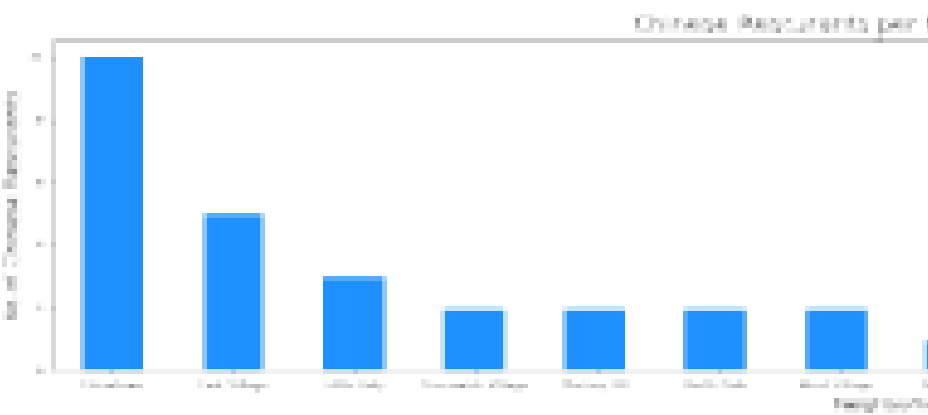
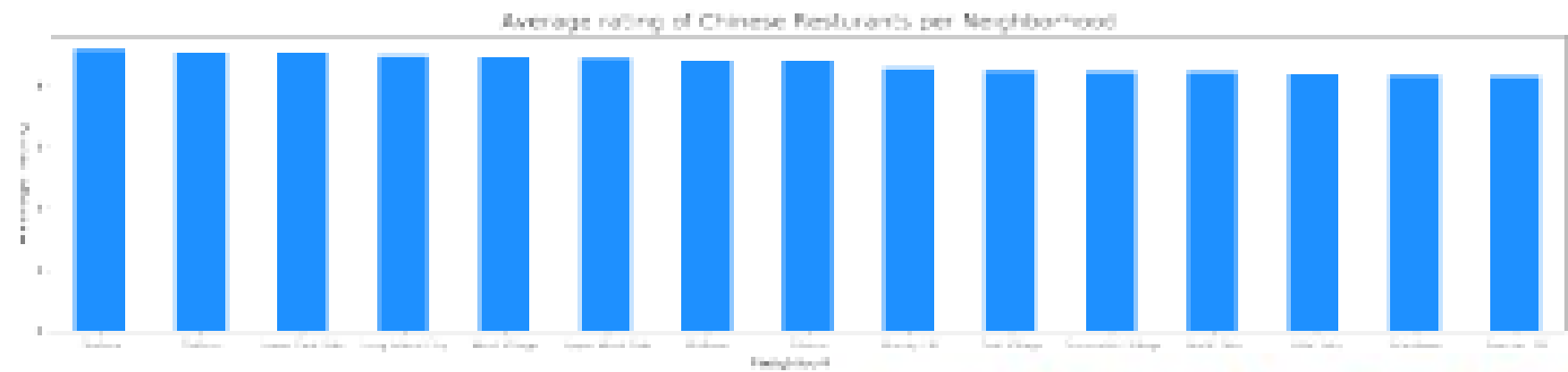
Neighbourhoods with largest numbers of Chinese restaurants



Average rating in neighborhoods with largest number of Chinese restaurants



Neighbourhoods with highest ratings in terms of Chinese restaurants



Neighbourhoods with highest ratings in terms of Chinese restaurants

Borough	Manhattan
Neighborhood	Chelsea
ID	44e9b421f964a520a5371fe3
Name	Buddakan
Likes	1473
Rating	9.2
Tips	519

Borough	Manhattan
Neighborhood	Chelsea
ID	44e9b421f964a520a5371fe3
Name	Buddakan
Likes	1473
Rating	9.2
Tips	519

Borough	Manhattan
Neighborhood	Chinatown
ID	3d166200f964a52067e61ee3
Name	Joe's Shanghai
Likes	1302
Rating	8.6
Tips	567

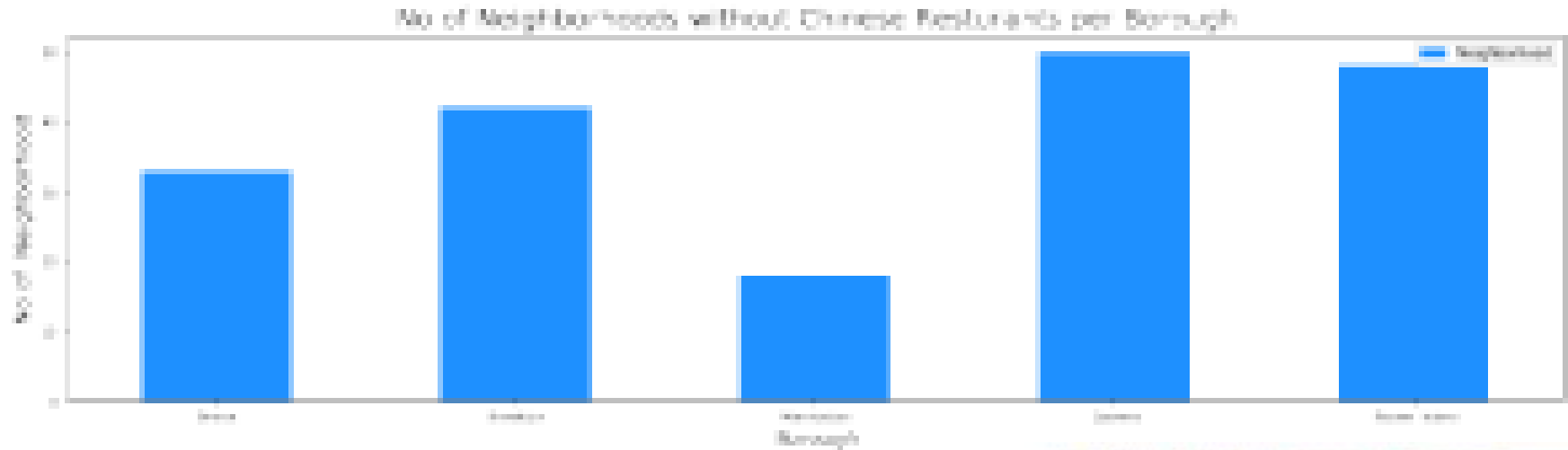
Borough	Manhattan
Neighborhood	Chinatown
ID	3d166200f964a52067e61ee3
Name	Joe's Shanghai
Likes	1302
Rating	8.6
Tips	567

Neighbourhoods with high and low-rated Chinese restaurants



Blue and red markers correspond to neighbourhoods with average rating >8 and <8 , respectively

Neighbourhoods without Chinese restaurants



Markers show neighbourhoods without Chinese restaurants.

Colours correspond to different boroughs.



Conclusion

- The best Chinese restaurant Buddakan is located in Chelsea neighborhood of Manhattan borough. Other five neighborhoods with high-rated restaurants are also located there. However, Manhattan neighborhoods are obviously quite small and many of them have either 1 or 0 number Chinese restaurants.
- Neighborhoods with several top-ranked Chinese restaurants are East Village and Little Italy which have 5 and 3 such restaurants, respectively. Both these neighborhoods are in Manhattan. Therefore, in order to try variety of good Chinese dishes it is recommended to visit these neighborhoods.
- To start a new Chinese restaurant one can try the northern part of Manhattan where there is a lack of restaurants with high ratings. Alternatively, one can consider neighborhoods without Chinese restaurants shown on the map.