

IBM Applied Data Science Capstone (Week 5)

Deciding where to open a Chinese Restaurant in New York

Author: Eugene Keung

Problem to solve

The objective of this Data Science Capstone Project is to analyze locations data in the city of New York therefore to select best place open a new Chinese restaurant.

Using Data Science methodology and tools such as Data Extraction, Analysis and Visualization, we are aiming to provide solutions to answer the question, which is :

Where should an investor open a Chinese Restaurant in New York(Borough/Neighbourhood)?

Source Data for the project

•Data:

Listing of Borough and neighborhoods (New York)

Latitude and longitude of neighborhoods

Venue data(Chinese restaurants)

•Sources

Opensource dataset (New York): https://cocl.us/new_york_dataset

Geocoder package(latitude and longitude)

Process

- 1) Collect the data from https://cocl.us/new_york_dataset and then to clean and process them into a data frames.
- 2) By using FourSquare, we can locate all venues and filter out Chinese restaurants.
- 3) Tips, ratings and likes are extracted for making decision.
- 4) Sort the data based on rankings then visualize by map

Results

For Boroughs, Brooklyn and Queens has the joint highest number of Chinese restaurants.

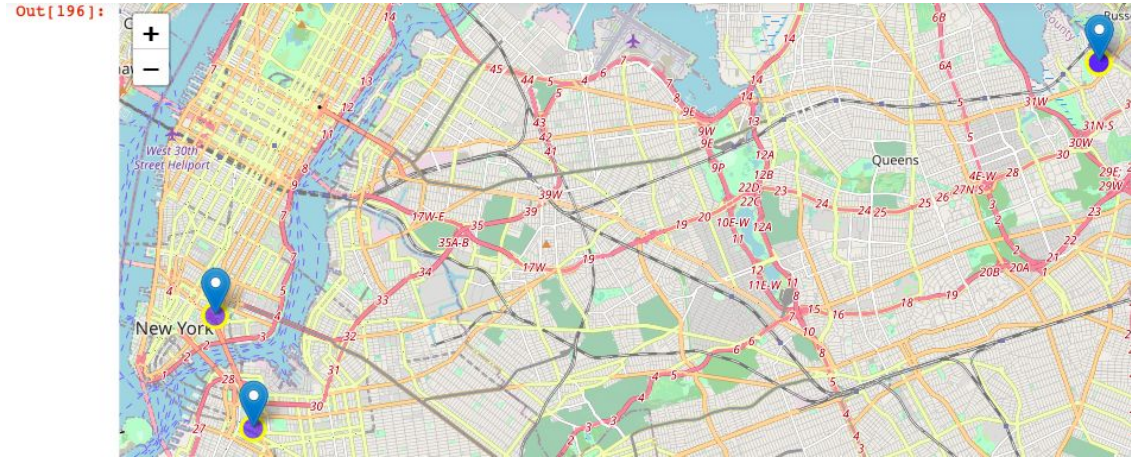
For Neighbourhood, Chinatown(Manhattan) has highest no of Chinese restaurants

- Manhattan has the highest average rating for Chinese Restaurants.
- Chinatown from Manhattan has highest average rating for Chinese Restaurants which Downtown from Brooklyn comes 2nd

Discussion & Conclusion

Manhattan and Brooklyn are the top 2 highest average ratings Borough of Chinese restaurants which their neighbourhoods within Chinatown and Downtown have the highest average ratings within. Also, Chinatown and Downtown are close to each other and these neighbourhood are with good amount of Chinese restaurants, ratings and likes.

Therefore opening a Chinese restaurants in either of the neighbourhood will be beneficial/ profitable as large amount of restaurants there means Chinese food is popular in the area.



Thank you!!!!!!