Capstone Project - The Battle of Neighborhoods (Week 1)

Data and Method

Data:

New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.

1) Geo_location

Data source:
```
https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v
={}&ll={},{}&radius={}&limit={}
```
Description: This data set will provide latitude and longitude of the Chinese restaurants.

2) Data source: Fousquare API
Description: By using this API we will get all the venues in each neighborhood. We can filter these venues to get only Chinese restaurants.
```
https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v
={}&ll={},{}&radius={}&limit={}
```

3) 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. Chinese restaurants in each neighborhood of New York city.

All data related to locations and quality of Chinese restaurants will be obtained via the FourSquare API utilized via the Request library in Python.

Methodology:

The Methodology section will describe the main components of our analysis and predication system. The Methodology section comprises four stages:

Collect Inspection Data : Data will be collected from https://cocl.us/new_york_dataset and cleaned and processed into a data frame.

Explore and Understand Data: Foursquare be used to locate all venues and then filtered by Chinese restaurants. Ratings, tips, and likes by users will be counted and added to the data frame.

Data preparation and preprocessing: Data will be sorted based on rankings

Modeling: Finally, the data be will be visually assessed using graphing from various Python libraries.

Data Analysis: I did the analysis and discuss results. Print out the head() of the data.

	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