Capstone Project – The Battle of Neighborhoods (Part-1)

Data Section:

New York City (NYC), often called The City or simply New York (NY), is the most populous city in the United States. New York City has been described as the cultural, financial, and media capital of the world, significantly influencing commerce. New York City is composed of five boroughs, each of which is a county of the State of New York. The five boroughs—Brooklyn, Queens, Manhattan, the Bronx, and Staten Island. While, based on these basic introductions of New York City, we can know that New York City's demographics show that it is a large and ethnically diverse metropolis. With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belong to different categories like Chinese, Indian, French etc.

Therefore, in this project, I'd like to know how we can choose a Chinese Restaurant in New York City if we want to eat some Chinese cuisine. So, we might need the following data:

- New York City data that contains Boroughs, Neighborhoods along with their latitude and longitude.
  - Data source: https://geo.nyu.edu/catalog/nyu_2451_34572
  - This dataset contains the required information, such as latitude, longitude. And we will use this dataset to explore various neighborhoods and borough of New York City.

- Chinese Restaurants in each neighborhood of New York City
  - Data source: Foursquare API (only 50 premium calls each day)
  - Description: By using this API we will get all the venues and details of venues in each neighborhood. We can filter these venues to get only Chinese restaurants.

- GeoSpace Data
  - Data source: https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm
  - Description: By using this geo space data we will get the New York Borough boundaries that will help us visualize choropleth map.