

The Battle of the Neighbourhoods - Week 2

Data : One city will be analysed in this project : **New York City**.

We will be using the below datasets for analysing New York city

Data 1 : Neighbourhood has a total of 5 boroughs and 306 neighbourhoods. In order to segment the neighbourhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighbourhoods that exist in each borough as well as the latitude and longitude coordinates of each neighbourhood.

This dataset exists for free on the web. Link to the dataset is : https://geo.nyu.edu/catalog/nyu_2451_34572

Data 2 : Second data which will be used is the DOHMH Farmers Markets and Food Boxes dataset. In this we will be using the data of Farmers Markets.

<https://data.cityofnewyork.us/dataset/DOHMH-Farmers-Markets-and-Food-Boxes/8vwk-6iz2>

Website-<https://www.grownyc.org/greenmarketco/foodbox> GrowNYC's Fresh Food Box Program is a food access initiative that enables under-served communities to purchase fresh, healthy, and primarily regionally grown produce well below traditional retail prices.

A farmers' market is often defined as a public site used by two or more local or regional producers for the direct sale of farm products to consumers. In addition to fresh fruits and vegetables, markets may sell dairy products, fish, meat, baked goods, and other minimally processed foods.

Data 3 : For the below analysis we will get data from wikipedia as given below :

1. New York Population
2. New York City Demographics
3. Cuisine of New York city
4. https://en.wikipedia.org/wiki/New_York_City
5. https://en.wikipedia.org/wiki/Economy_of_New_York_City
6. https://en.wikipedia.org/wiki/Portal:New_York_City
7. https://en.wikipedia.org/wiki/Cuisine_of_New_York_City
8. https://en.wikipedia.org/wiki/List_of_Michelin

Data 4 : New York city geographical coordinates data will be utilized as input for the Foursquare API, that will be leveraged to provision venues information for each neighbourhood. We will use the Foursquare API to explore neighbourhoods in New York City. The below is image of the Foursquare API data.

| | Neighborhood | Neighborhood Latitude | Neighborhood Longitude | Venue | Venue Latitude | Venue Longitude | Venue Category |
|---|--------------|-----------------------|------------------------|---|----------------|-----------------|----------------------|
| 0 | Wakefield | 40.894705 | -73.847201 | Lollipop Gelato | 40.894123 | -73.845892 | Dessert Shop |
| 1 | Wakefield | 40.894705 | -73.847201 | Rite Aid | 40.896521 | -73.844680 | Pharmacy |
| 2 | Wakefield | 40.894705 | -73.847201 | Cooler Runnings Jamaican Restaurant Inc | 40.898283 | -73.850478 | Caribbean Restaurant |
| 3 | Wakefield | 40.894705 | -73.847201 | Carvel Ice Cream | 40.890487 | -73.848568 | Ice Cream Shop |
| 4 | Wakefield | 40.894705 | -73.847201 | Dunkin Donuts | 40.890631 | -73.849027 | Donut Shop |