IBM Applied Data Science Capstone Project - The Battle of Neighborhoods (Week 1)

Introduction

The aim of this project is to list and visualize all major parts of New York City that has great Indian restaurants. Find best location in New York City for Indian Cuisine and Which areas have potential Indian restaurant Market.

Data

For this project we need the following data:

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

   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 neighbourhoods of New York city. Indian restaurants in each neighborhood of New York city.

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 Indian restaurants.

3. 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.

Approach

- Collect the new york city data from https://cocl.us/new_york_dataset (https://cocl.us/new_york_dataset)
- Using FourSquare API we will find all venues for each neighborhood.
- Filter out all venues that are Indian Resturants.
- Find rating , tips and like count for each Indian Resturants using FourSquare API.
- Using rating for each resturant , we will sort that data.
- Visualize the Ranking of neighborhoods using folium library(python)