



IBM – Applied Data Science - Capstone Project

The Battle of Neighbourhoods. Part 1.

New York City's is one of the largest and ethnically diverse metropolis in the world. Different communities from all over the world living there have own culture and cuisine. That's why there are numerous cafes and restaurants placed in NYC that can satisfy everyone with any taste, restrictions, and food preference.

For this project the following data to be used:

- NYC data comprises Boroughs, Neighbourhoods with its latitude and longitude. This data set contains the required information. This data will be used to explore various neighbourhoods of New York City (Source: https://cocl.us/new_york_dataset)
- Indian restaurants of New York City. By using this API we will have all the venues in each neighbourhood. We can filter them to get only Indian restaurants. (Source: Foursquare API)
- GeoSpace data. By using this data, we will get the Borough boundaries that will help us visualizing choropleth map. (Source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>)

Problem

New York City was home to nearly 8.419 million people in 2019, accounting for over 40% of the population of New York State and a slightly lower percentage of the New York metropolitan area, home to approximately 23.6 million. The New York region continues to be by far the leading metropolitan gateway for legal immigrants admitted into the United States.

Children from an Indian family that immigrated to NYC in 1990s are full of energy and excitement after graduation decided open a new format of Indian restaurant with full of digital services and innovative devices. To start their own family business, we are supposed to answer to the following questions:

- 1) show all major spots of Indian restaurants in NYC.
- 2) what is best possible place in NYC for a new Indian restaurant?
- 3) which areas have potential Indian ready meal market?
- 4) which all areas have insufficient Indian Restaurants?
- 5) which is the best place to stay if you love Indian cuisine?