

Capstone Project - The Battle of Neighbourhoods

Introduction:

New York City's demographics show that it is a large and ethnically diverse metropolis. It is the largest city in the United States with a long history of international immigration. New York City was home to nearly 8.5 million people in 2014, accounting for over 40% of the population of New York State.

Indians in the New York City metropolitan region constitute one of the largest and fastest growing ethnicities in the New York City metropolitan area. The New York City region is home to the largest Indian American population among metropolitan areas by a significant margin.

Due to large number of Indians in the city, Indian cuisine is very popular in and around New York. The growth in the New York City metropolitan region's Indian populace has been accompanied by growth in the number of Indian restaurants, located both within and outside of traditional Indian enclaves, such that within New York City proper alone, there are hundreds of Indian restaurants.

Problem Definition:

Looking at all these Indian restaurants we can perform data analysis on them in the following way:-

- Visualize all the parts of New York City that have Indian restaurants.
- Top ranked Indian restaurants in New York City.
- Which areas have best Indian restaurants?
- Which areas lack good Indian restaurants?
- Which all areas have potential Indian restaurant market?
- Which areas are suitable for living if one prefers Indian cuisine?

Data:

Following data will be used for this Data Analysis Capstone Project:

- New York City data that contains list Boroughs, Neighbourhoods 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 neighbourhood of New York City
 - Data source : Foursquare API
 - Description: By using this API we will get all the venues in each neighbourhood. We can filter these venues to get only Indian restaurants.
- GeoSpace data
 - Data source : <https://data.cityofnewyork.us/City-Government/BoroughBoundaries/tqmj-j8zm>
 - Description: By using this geo space data we will get the New York Borough boundaries that will help us visualize choropleth map.