

# **Capstone Project - The Battle of Neighborhoods (Week 1)**

## **Introduction:**

The City of New York is the most populous city in the United States. With an estimated 2018 population of 8,398,748 distributed over a land area of about 302.6 square miles (784 km<sup>2</sup>), New York is also the most densely populated major city in the United States. People from almost every country lives here. Indians in the New York City metropolitan region constitute one of the largest and fastest growing ethnicities in the New York City metropolitan area of the United States. The New York City region is home to the largest Indian American population among metropolitan areas by a significant margin, enumerating 711,174 individuals by the 2013-2017 U.S. Census American Community Survey estimates.

When a new person moves from India to New York due to job change or any other reasons, some questions come in his mind regarding the Indian food/restaurants e.g.

- Which areas have potential Indian restaurant market?
- What is best place in New York City for Indian Cuisine?

And the same problem arises when a person want to open a new Indian restaurant in the New York. The person also wants to know which is the best Borough to open a new restaurant?

So, in this project we will try to find the solution of above mentioned questions and try to find out best places in New York for Indian Cuisine and also find out the best Borough to open a new Indian restaurant. Also, we will visualize the Indian restaurants in all major parts of New York City.

## **Data:**

For resolving the above mentioned problems, we need the following data:

- Indian restaurants in each neighborhood of New York City
  - Data Source: Foursquare 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
- New York City data which contains list Boroughs, Neighborhoods along with their latitude and longitude
  - Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of New York City
- GeoSpace data
  - Description: By using this geo space data we will get the New York Borough boundaries that will help us in visualizing choropleth map