**Capstone Project - The Battle of Neighborhoods**

**Introduction**

**New York City** (**NYC**), often called the **City of New York** or simply **New York** (**NY**), is the most populous city in the United States. With an estimated 2018 population of 8,398,748 distributed over about 302.6 square miles (784 km2), 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. Over the last decade the city has been

growing faster than the region. The New York region continues to be by far the leading metropolitan gateway for legal immigrants admitted into the United States.  The city and its metropolitan area constitute the premier gateway for legal immigration to the United States. As many as 800 languages are spoken in New York, making it the most linguistically diverse city in the world. New York is home to more than 3.2 million residents born outside the United States, the largest foreign-born population of any city in the world as of 2016.The term "melting pot" was

coined to describe densely populated immigrant neighborhoods on the Lower East Side.

With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belonging to different cuisines like Italian, Chinese, Indian, French, Japanese etc. A large population search for good Indian cuisines. We will list and visualize all major parts of New York City that has great Indian restaurants.

**Data**

For this project we will use 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 of New York city data. We will use this data set to explore various neighborhoods of New York city.

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

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.

1. 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.