

# Description of the problem and a discussion of the background

## Background of the Problem

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. With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belonging to different categories like Chinese, Indian, French etc. For a seminar will be travelling to New York with family. My family is interested in Mexican cuisines. So I have to identify neighbourhoods for the Mexican restaurants. Identifying nearest Neighbourhood for Mexican Restaurants is the main objective for the project

## Description of the Problem

Identifying a decent Mexican restaurant which is nearest neighbourhood is the main motto of this project.

Target audience: 1) This project will be useful to the one who is travelling to New York and wanted to taste best Mexican cuisines.

2) One who wants to open a Mexican restaurant to identify the best place for their business

## Description of the data

For this project we need the following data :

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

**Data source :** [https://cocl.us/new\\_york\\_dataset](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.

Mexican 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 Mexican restaurants.

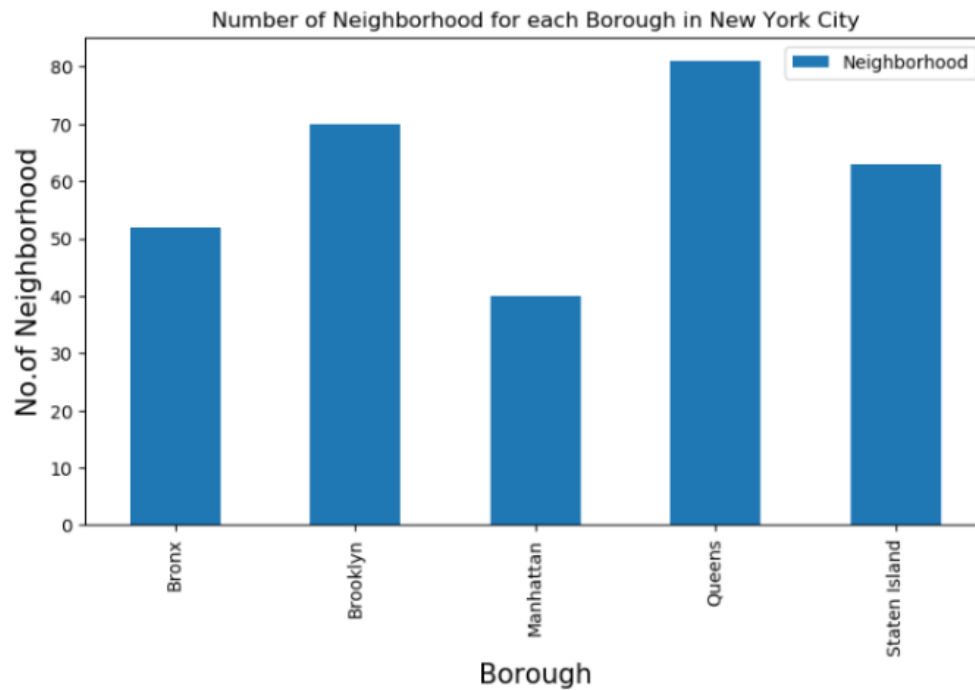
For visualisation Folium library is used to display map of nearest neighbourhoods after identifying Mexican restaurants

## Methodology

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 neighbourhood. Filter out all venues that are Indian Restaurants. Visualize the Ranking of neighbourhoods using folium library

## Results

### 1) Identifying number of neighbourhoods for each borough



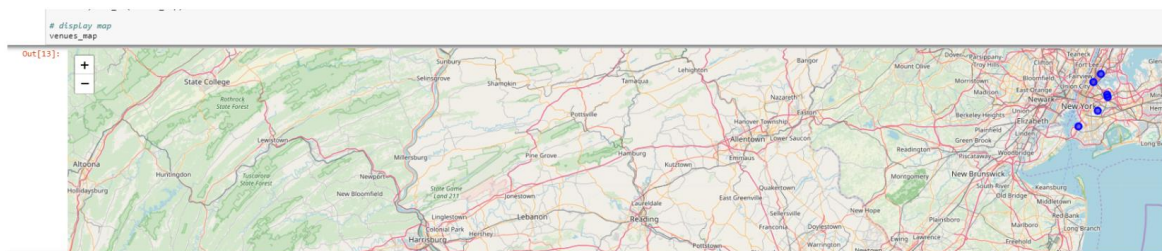
## 2) Identifying number of Mexican Restaurants for each Borough in New York city



## 3) Identifying number of Mexican Restaurants for each Neighbourhood in New York city



#### 4) Map is drawn to identify best and nearest neighbourhoods



#### Conclusion:

- 1) Elmhurst, Jackson Heights, Sunset Park are best neighbourhood for Mexican restaurants
- 2) Queens has more no of neighbourhoods