

# FINAL REPORT CAPSTONE

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## INTRODUCTION

My report is for those who are planning to visit Mumbai in India and who don't know in which neighbourhood they can visit I'll try to provide some information on this with all factors to understand how to go about it.

## PROBLEM

**ABC is a company based in Mumbai for tourism currently it works on a project to organize an event for 5 days for a group of artists from all over the world. The company has to put a good program, including a hotel of residence, a hall for meetings, places of landscape to visit, stores for shopping, restaurants and cafes. So the company's purpose is to make a list of places of landscape in Toronto, including the nearest restaurants, cafes, and shopping st**

## Data

For this project we need the following data :

- **New York City data that contains list Boroughs, Neighborhoods 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 neighborhoods of new york city.*

- **Indian resturants 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 resturants.*

- **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.*

## **Approach**

- 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 neighborhood.
- Filter out all venues that are Indian Resturants.

- Find rating , tips and like count for each Indian Resturants using FourSquare API.
- Using rating for each resturant , we will sort that data.
- Visualize the Ranking of neighborhoods using folium library(python)

## Questions that can be asked using the above mentioned datasets

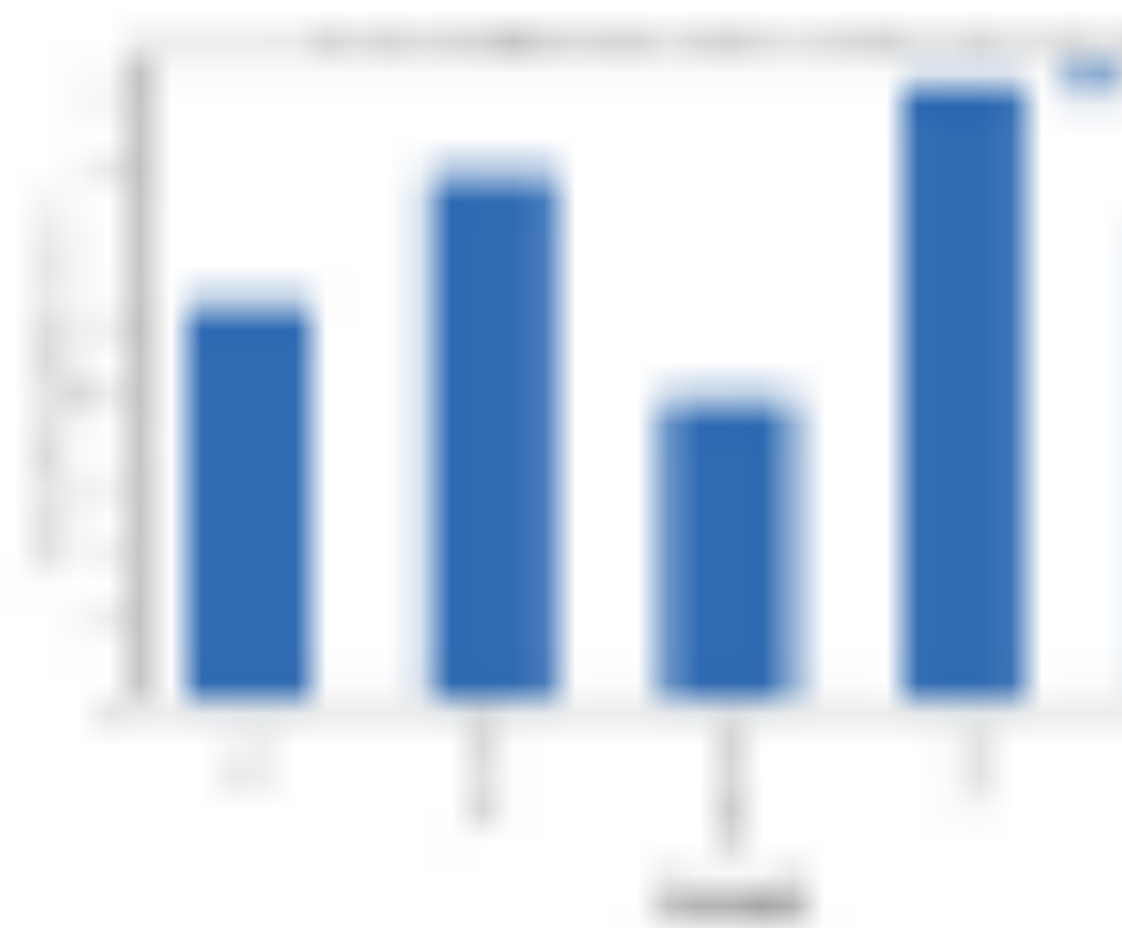
- Locations in Mumbai fot hanging out?
- Area with maximum hangout spots?

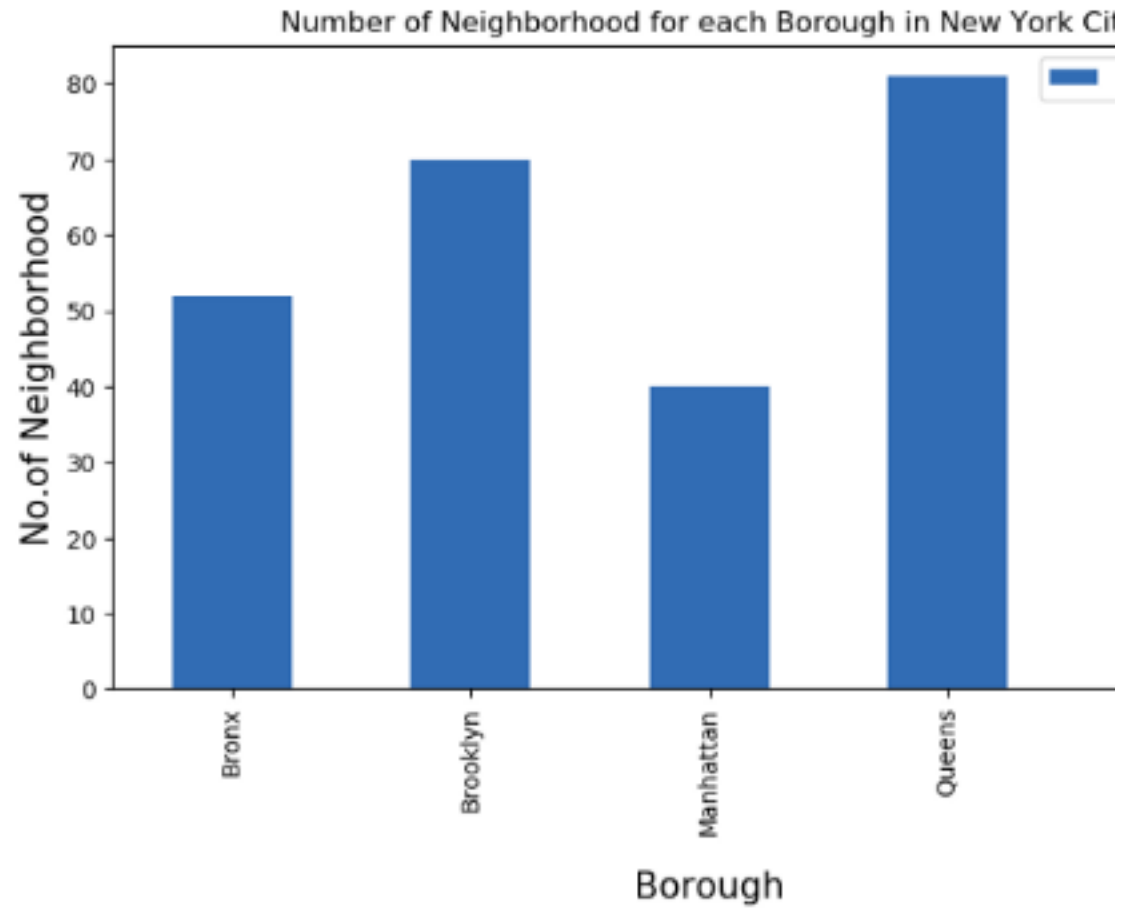
## Analysis

So I did the analysis and got exciting results. To see full code click [here](#).

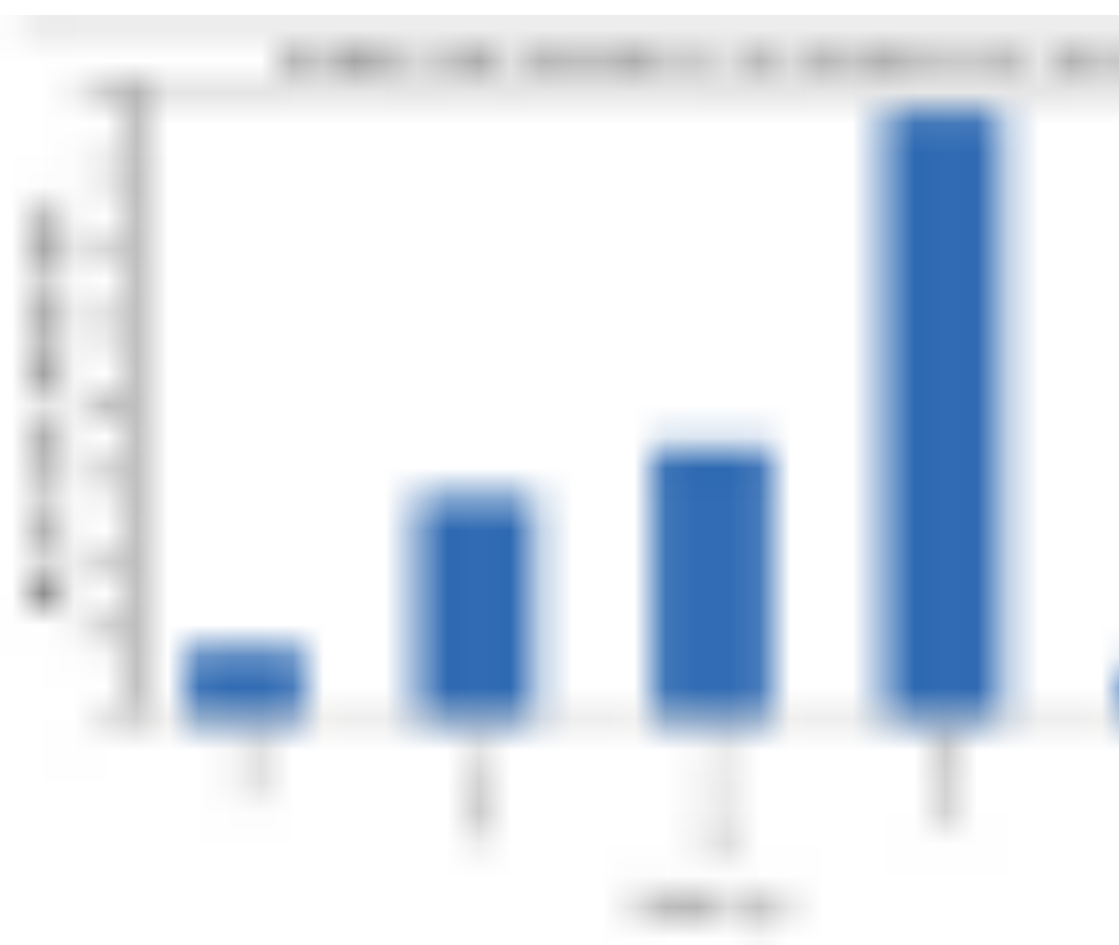
## Results

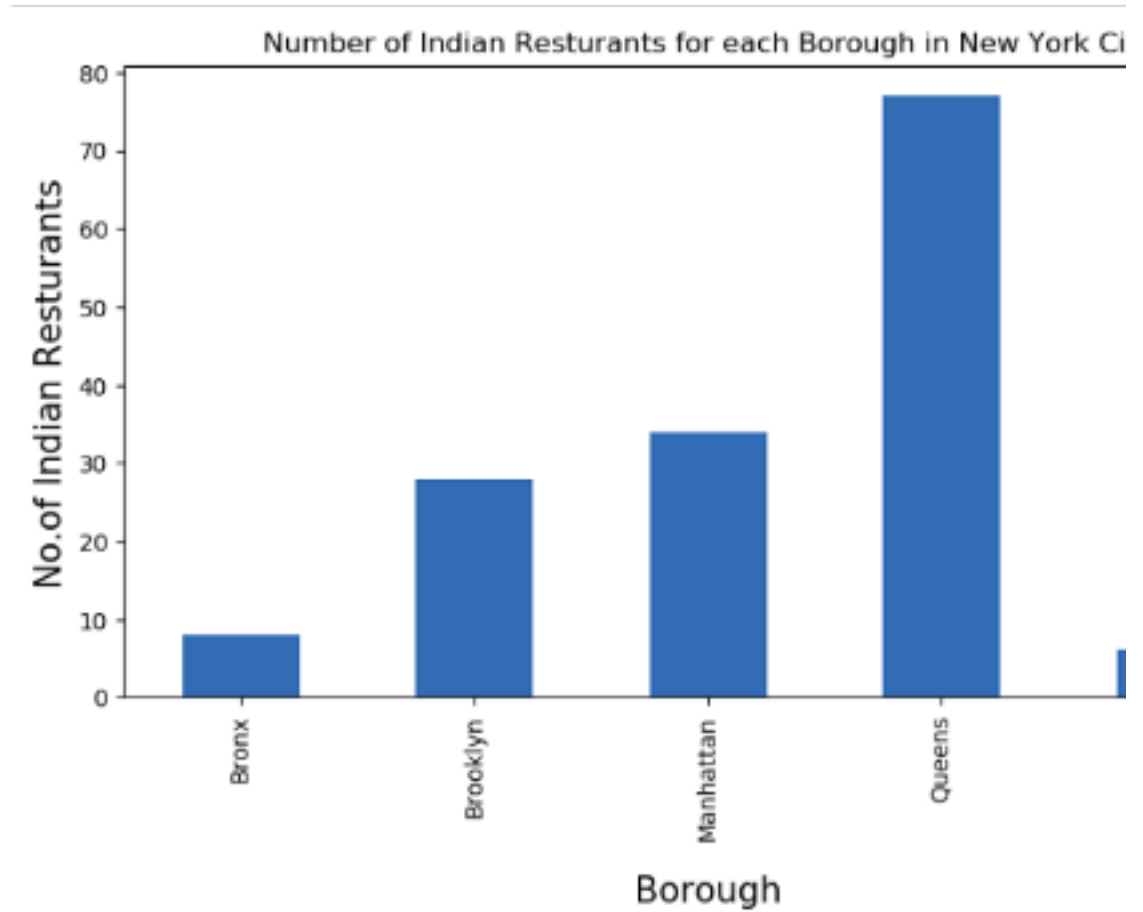
1. We see that Queens has the highest number of Neighbourhoods.





2. Also Queens has the highest number of Indian Restaurants.

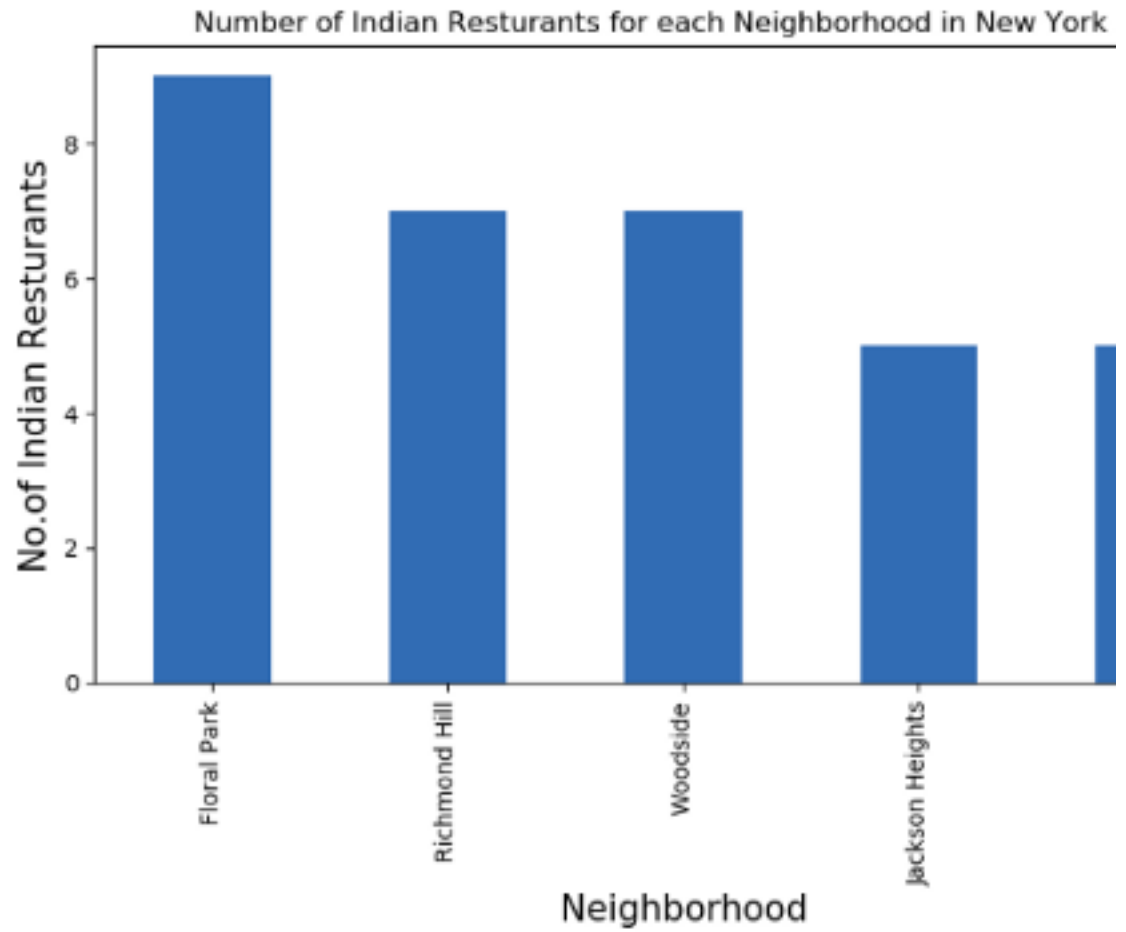




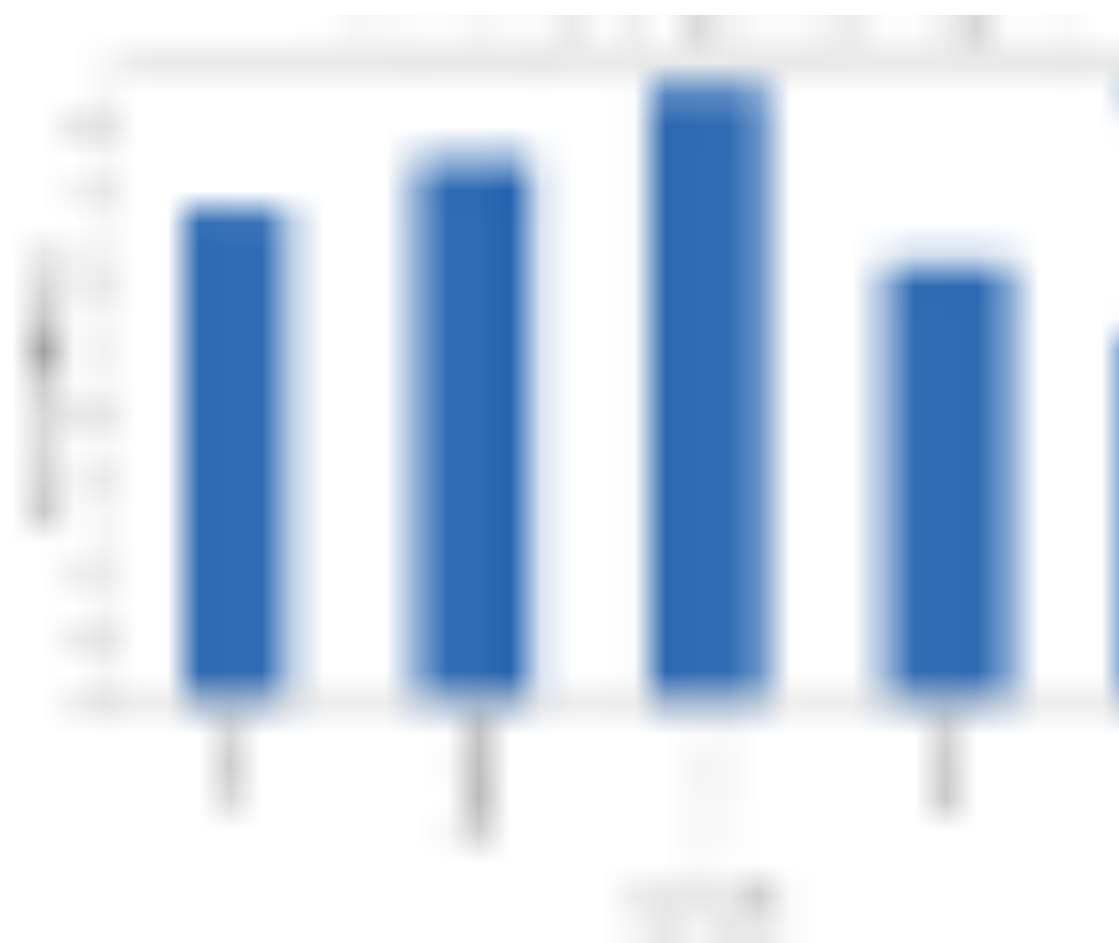
3. Floral Park in Queens has the highest number of Indian Restaurants with a total count of 9.

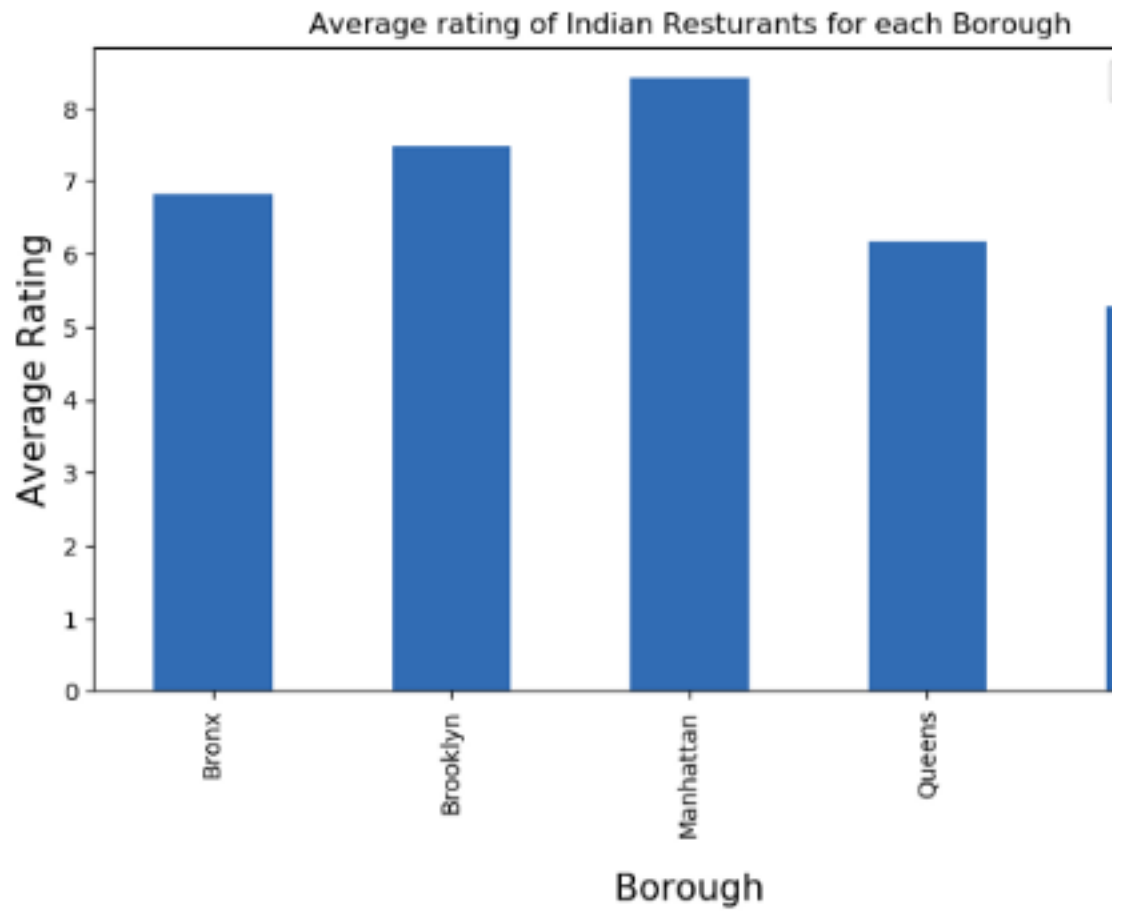






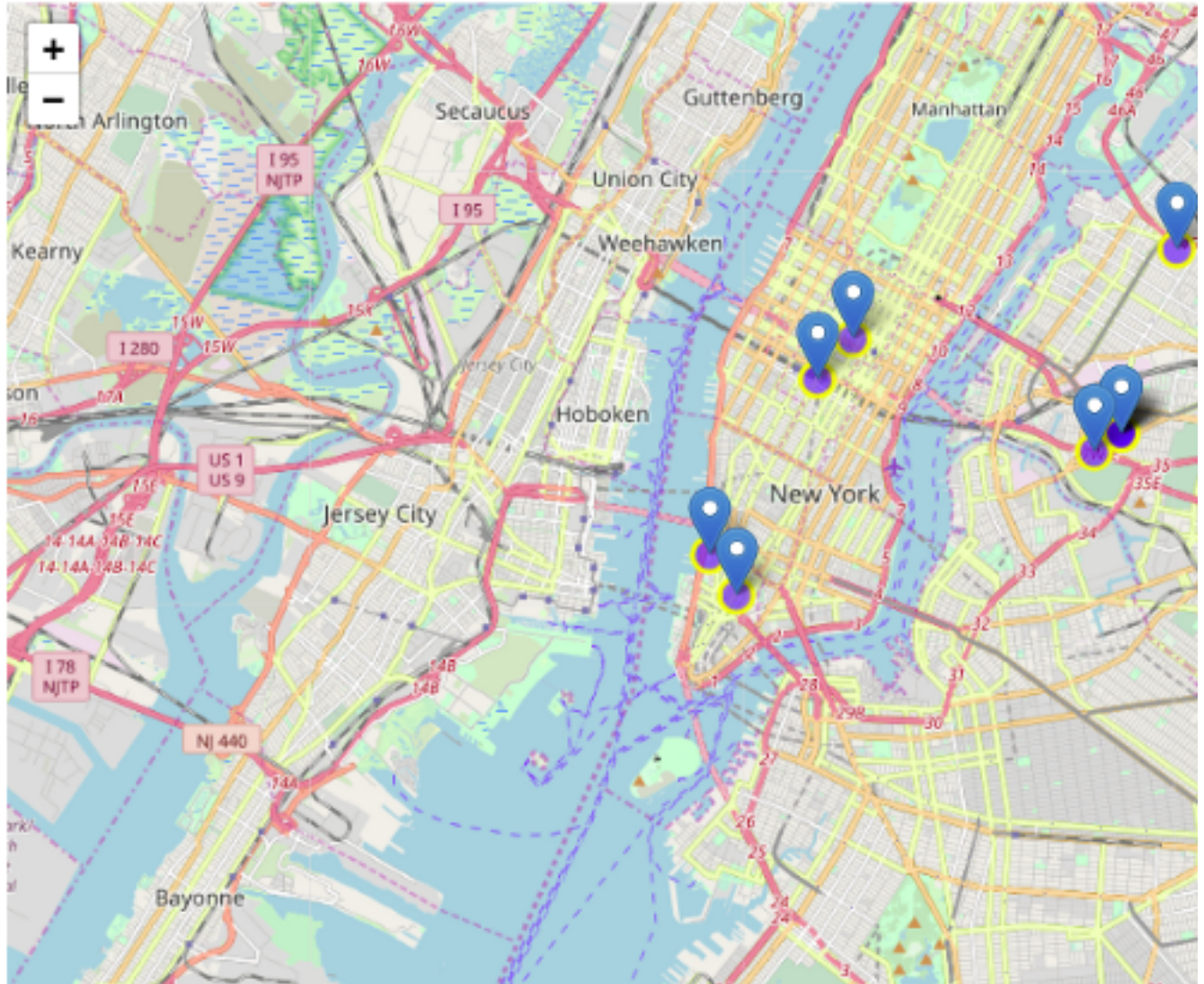
4. Manhattan has the highest average rating for Indian Restaurants.



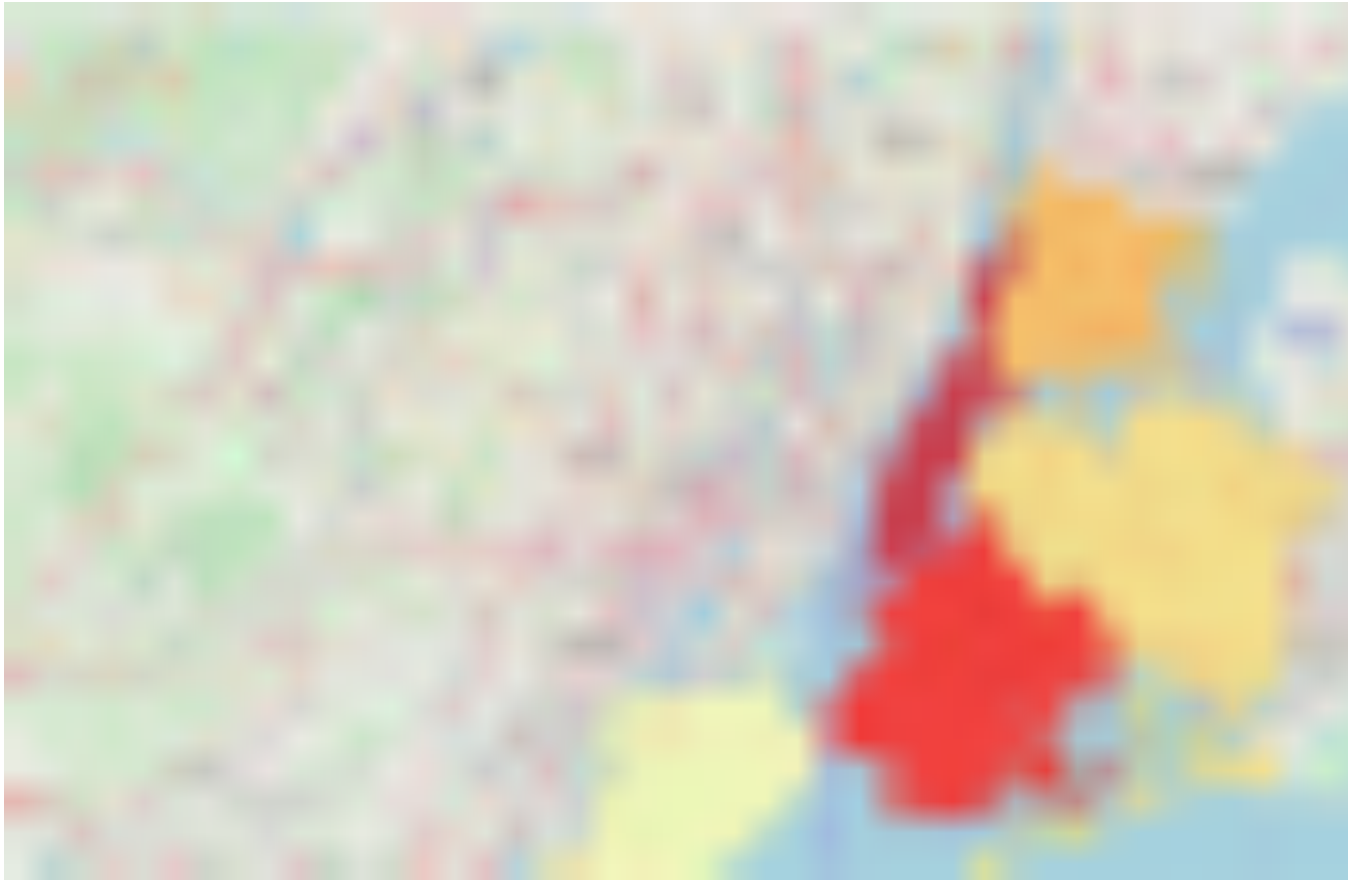


5. Best neighbourhoods in New York that has highest average rating for Indian Restaurants.

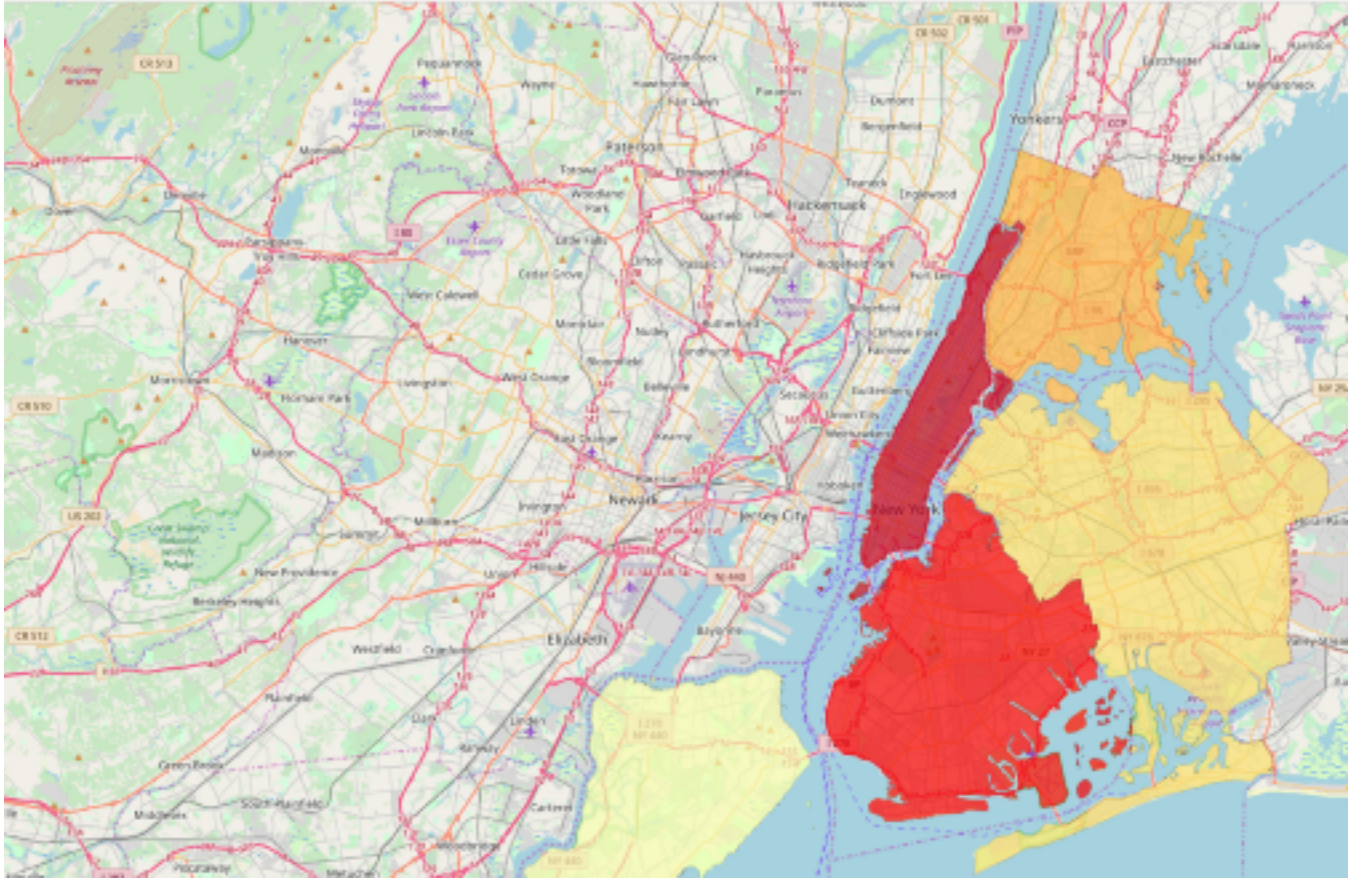




6. Borough Choropleth map based on average rating of Indian Restaurants.







## Conclusion

- Astoria(Queens), Blissville(Queens), Civic Center(Manhattan) are some of the best neighborhoods for indian cuisine.
- Manhattan have potential Indian Resturant Market/
- Staten Island ranks last in average rating of Indian Resturants.
- Manhattan is the best place to stay if you prefer Indian Cuisine.

# Limitations

- The ranking is purely on basis of rating of restaurants
- The accuracy of data depends purely depends on the data provided by FourSquare