



# Applied Data

## ► Science Capstone

The Battle of Neighborhoods

# New York Data

- ▶ New York, is the most populous city in the United States. New York City is also the most densely populated major city in the United States. Located at the southern part of the U.S.
- ▶ New York City is a global hub of business and commerce, as a center for banking and finance, retailing, world trade, transportation, tourism, real estate, new media, traditional media, advertising, legal services, accountancy, insurance, theater, fashion, and the arts in the United States.
- ▶ New York City's food culture includes an array of international cuisines influenced by the city's immigrant history.

# Objectives

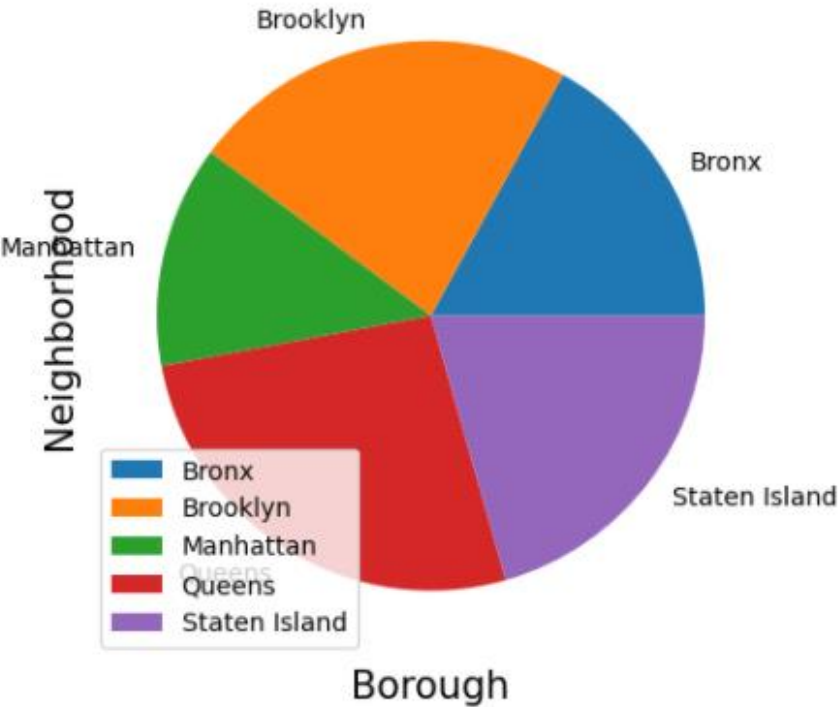
- ▶ The aim of this report is to study and analyze the neighborhoods Indian restaurants of new York city group them into similar clusters and, to analyze those clusters to gather meaningful information.
- ▶ That information can be used to find out neighborhoods that are same as your current neighborhood or at least similar.
- ▶ This information provided by this report would be useful for people who are interested in searching for Indian restaurants that are highly similar to their existing neighborhood.

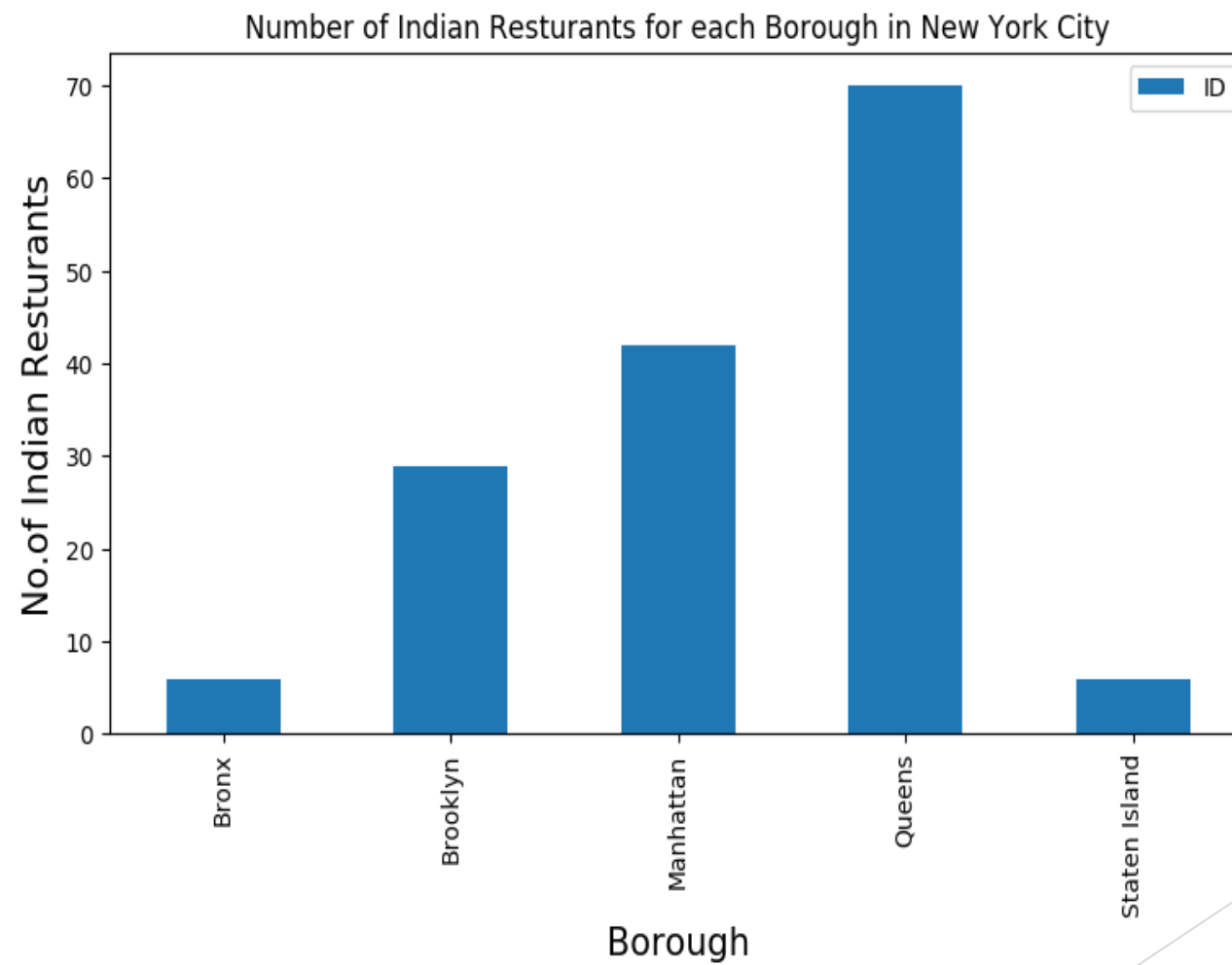
# Problem Description

- ▶ There are many restaurants in New York City, each belonging to different categories like Chinese, Indian, French etc. So as part of this project, we will list and visualize all major parts of New York City that has great Indian restaurants.
- ▶ **Queries that can be answered using above dataset.**
  - What is the best location in New York City for Indian Cuisine?
  - Which areas have potential Indian Restaurant Market?
  - Which all areas lack Indian Restaurants?
  - Which is the best place to stay if I prefer Indian Cuisine?

# Number of neighbourhoods in New York City

Number of Neighborhood for each Borough in New York City





1]:

	Neighborhood	Average Rating
14	Prospect Heights	8.9
15	Prospect Lefferts Gardens	8.7
11	North Side	8.5
2	Clinton Hill	8.5
17	South Side	8.5
6	Fort Greene	8.5
4	East Flatbush	8.4
20	Washington Heights	8.1
10	Manhattanville	8.0
12	Ocean Hill	7.9

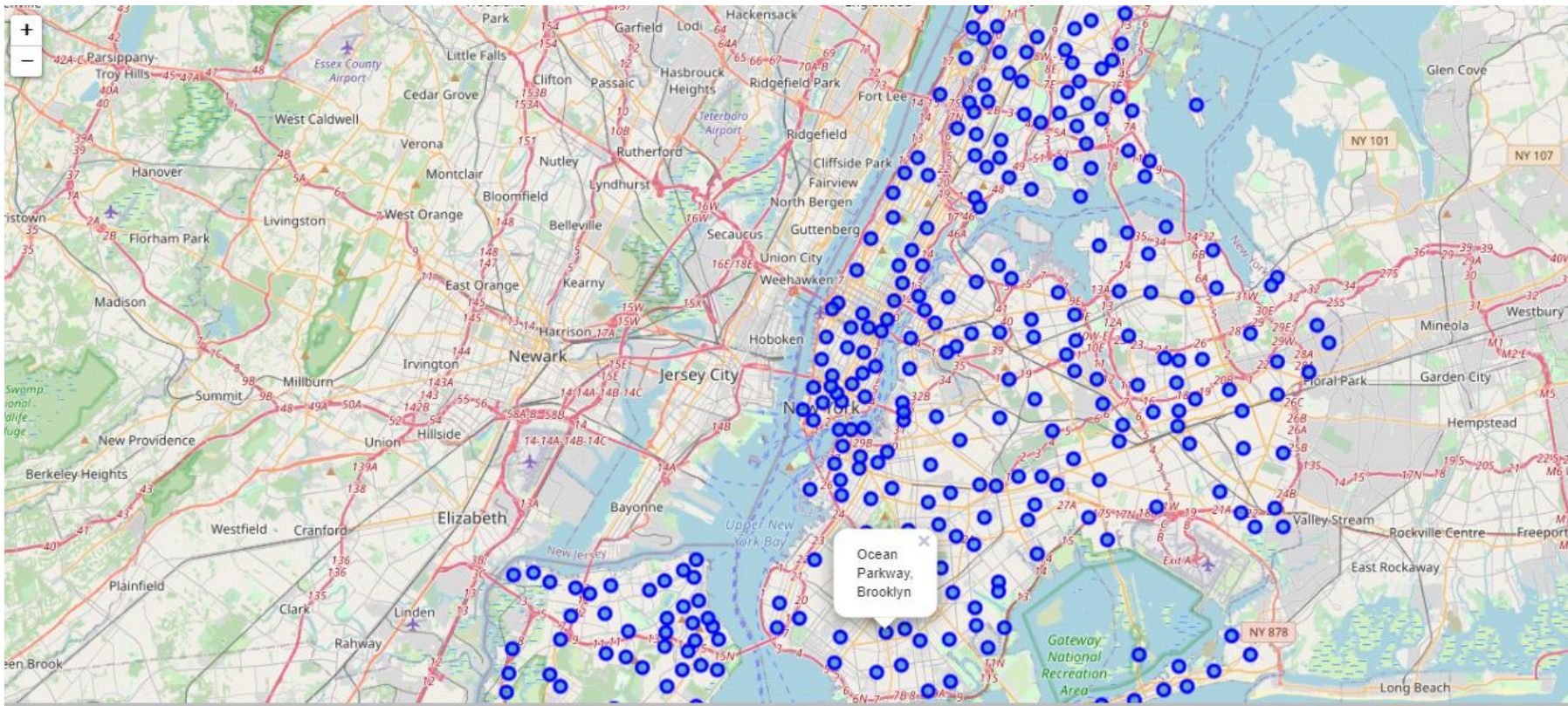
## Analysis of each Neighborhood

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	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
0	Bronx	Woodlawn	4c0448d9310fc9b6bf1dc761	Curry Spot	5	7.9	10
1	Bronx	Parkchester	4c194631838020a13e78e561	Melanies Roti Bar And Grill	3	6.1	2
2	Bronx	Spuyten Duyvil	4c04544df423a593ac83d116	Cumin Indian Cuisine	13	5.8	9
3	Bronx	Concourse	551b7f75498e86c00a0ed2e1	Hungry Bird	8	7.1	3
4	Bronx	Unionport	4c194631838020a13e78e561	Melanies Roti Bar And Grill	3	6.1	2



## Matplotlib and folium packages to visualize the clusters on a map of New York.





# Conclusion

There are many real life problems or scenarios where data can be used to find solutions to those problems.

To predict the best place in New York to open a new Indian Restaurant.

Capture the most restaurants of Chinese, French, Indian and all kind of food in New York City.

To predict which is the more Cuisine are located in New York City based on the food.