



# Big Apple Burgers

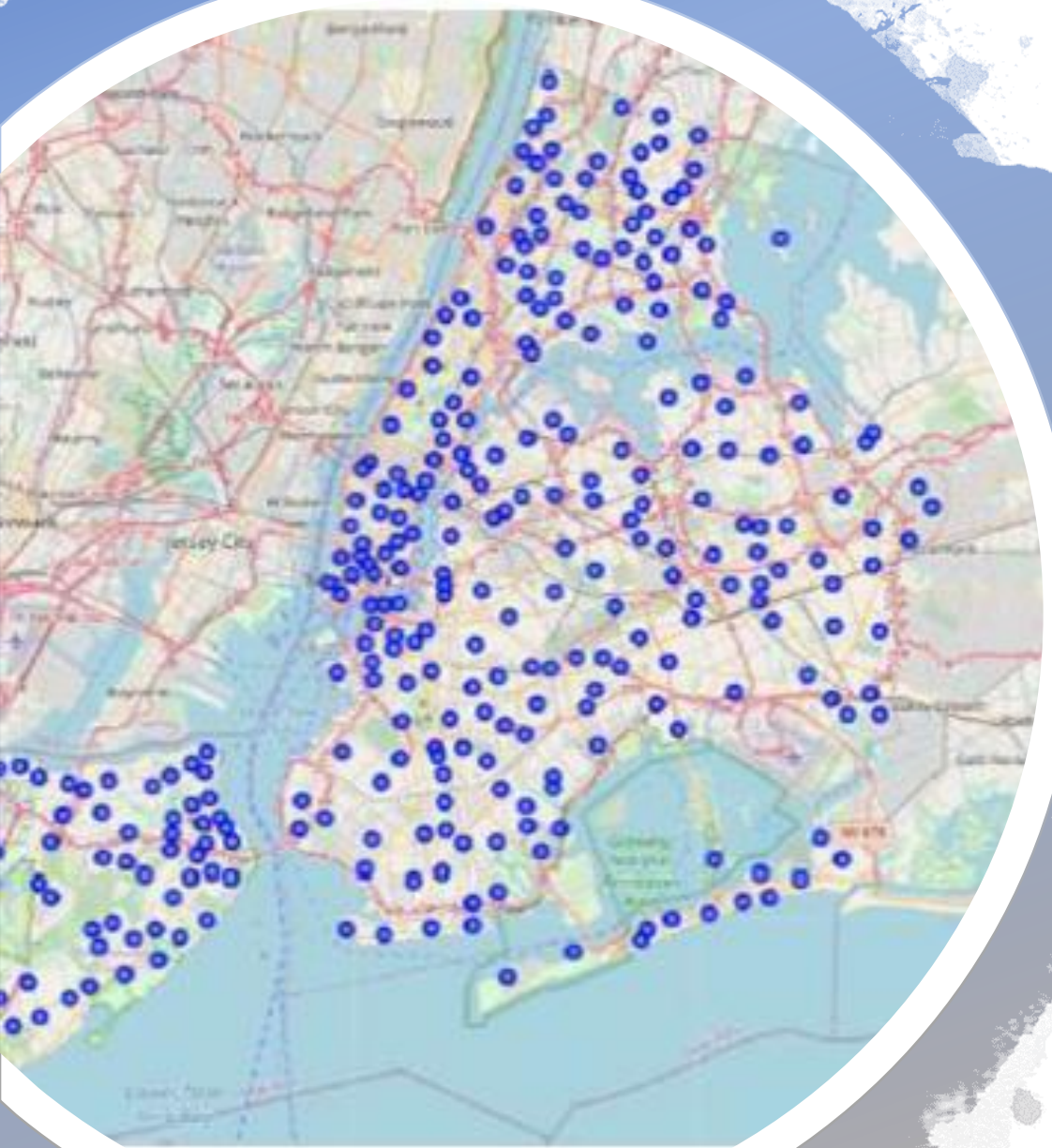
Applied Data Science Capstone Project

# Introduction/Business Problem

- Burgers are comforting foods and come in very handy while you are travelling a city and want to have a quick bite. One of the busiest cities in the world -New York is bound to have decent proportion of burger food joints to cater to its masses. The aim of this project is to identify and direct tourist and foodies to popular burger places in NYC.
- To complete this project the questions that one can answer are:
  1. Which Burger Joints are present in New York City.
  2. Which Borough and Neighborhood have the highest concentration of Burger Joints.
  3. Identify the Neighborhoods with top average ratings for Burger Joints
  4. Which Burger Joints have the highest ratings (Based on "Likes", "Ratings" and "Tips")

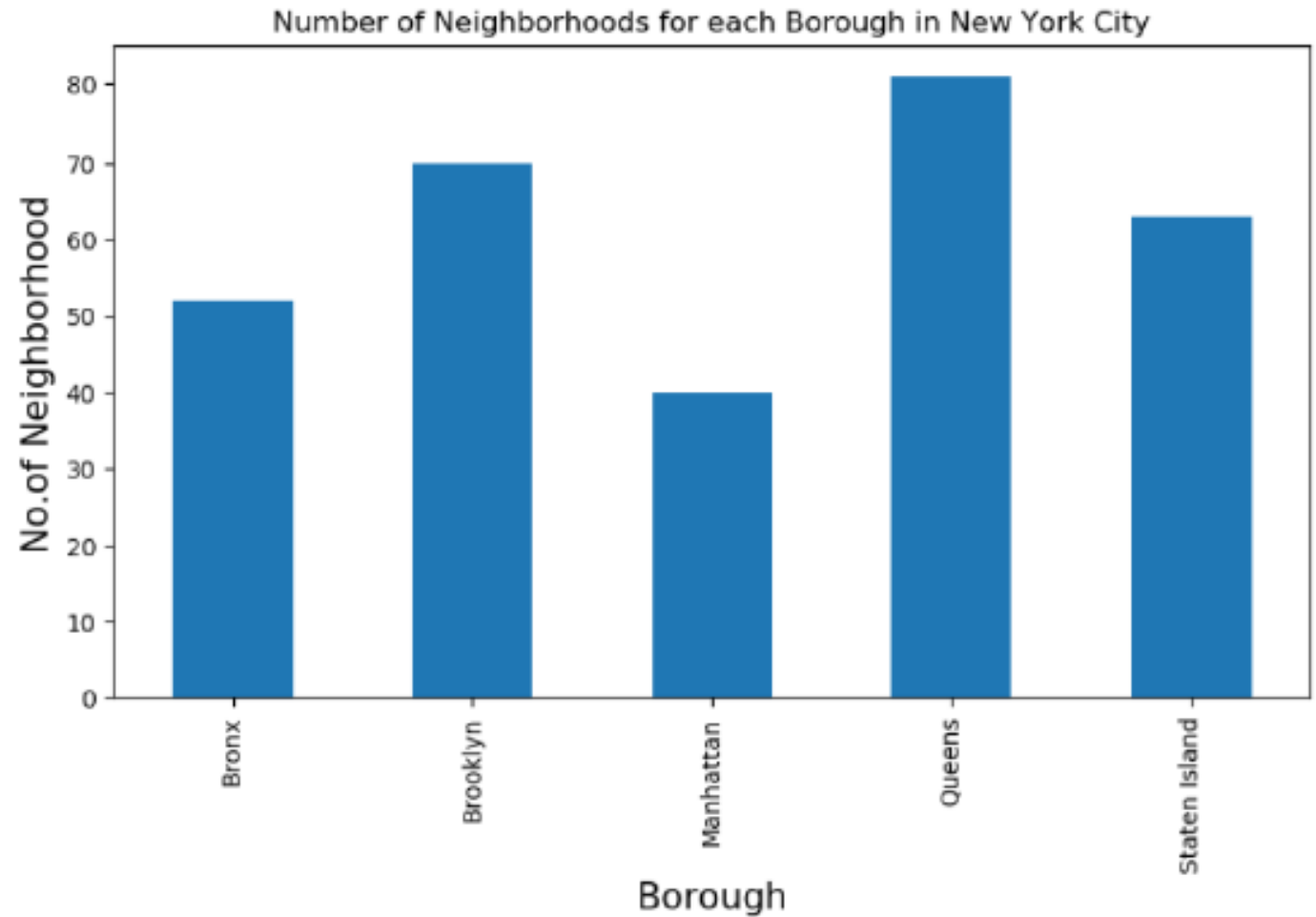
# Data Requirements

- Data on the 5 boroughs as well as the neighborhoods that exist in each borough. The latitude and longitude coordinates of each neighborhood are required as well. This information will be obtained from [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset).
- Detailed information on Burger joints in New York City. This will be obtained from Foursquare. Foursquare will be able to provide us with detailed information of all the burger joints in New York such as location, ratings, likes, reviews, tips, etc.
- By merging both sources of information we will be able to obtain the information required to solve the business problem/questions.

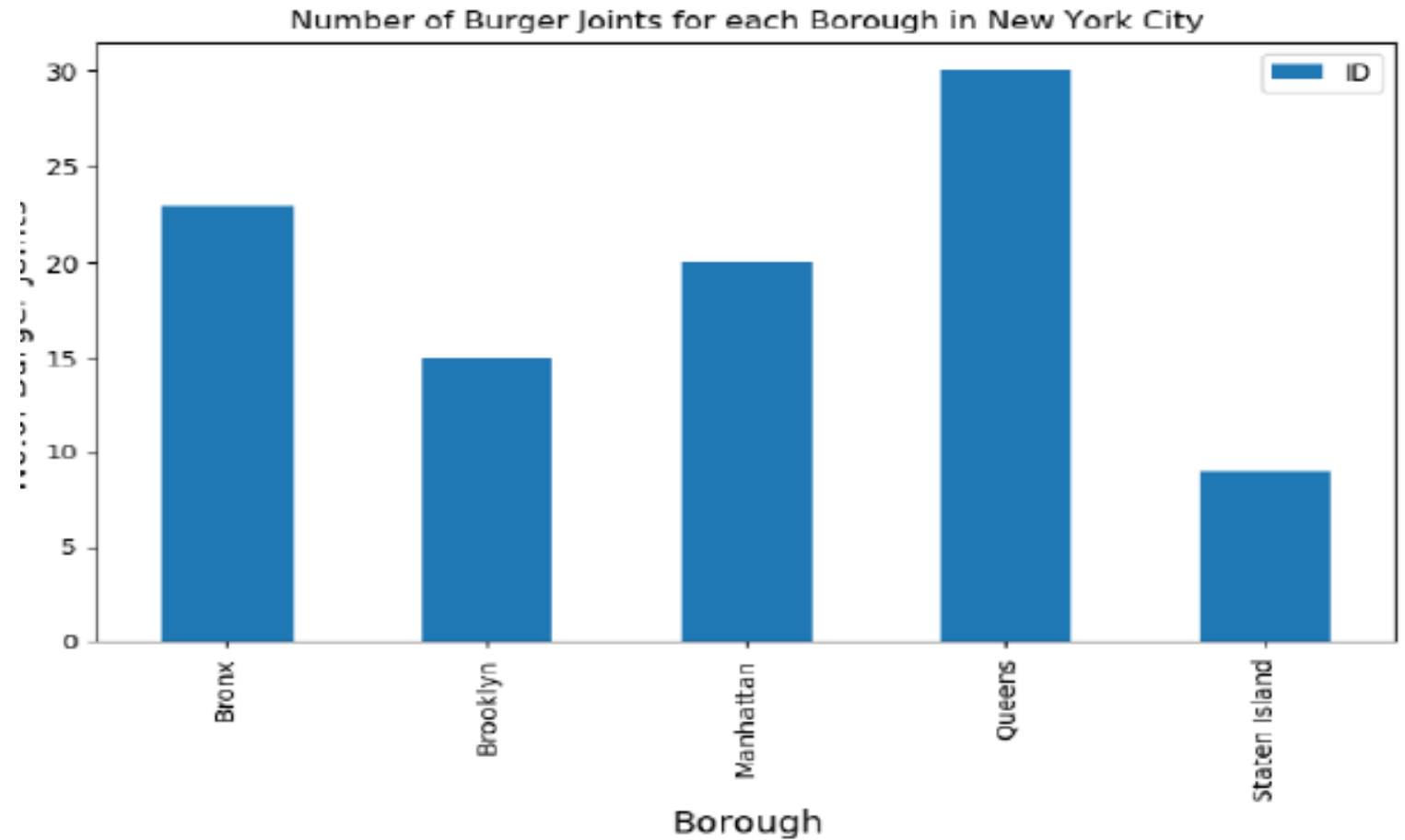


New York has 5 Boroughs  
and 306 Neighborhoods

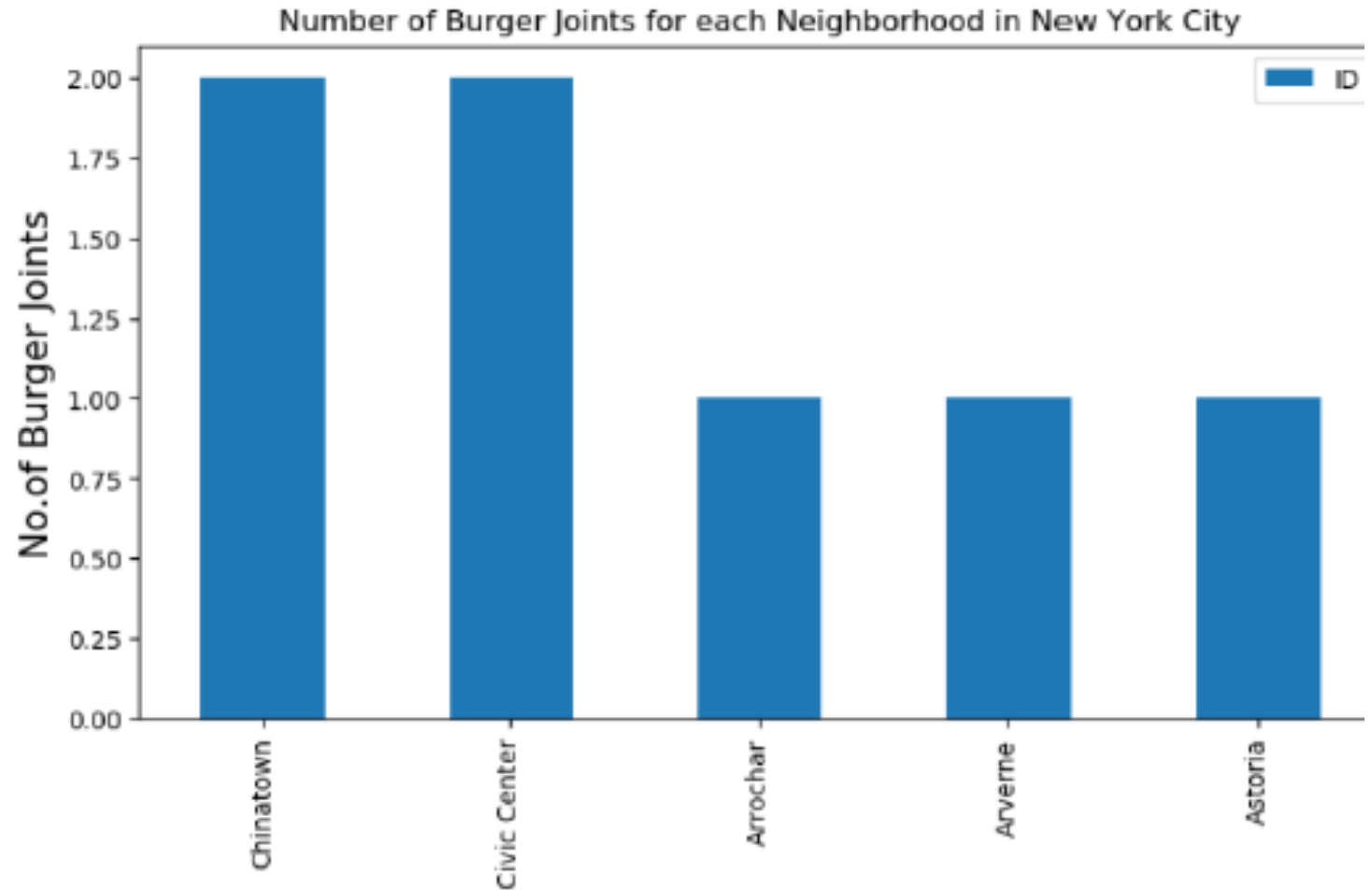
Queens has the  
greatest number  
of  
Neighborhoods



There are 97  
Burger Joints  
in NYC



Chinatown  
and Civic  
Center have  
the greatest  
number of  
Burger Joints





# Identifying the top-ranking burger joint based on Likes, Tips and Ratings

## Identifying which burger joint ranks first in terms of 'Likes'

```
[91]: burger_joints_stats_ny.iloc[burger_joints_stats_ny['Likes'].idxmax()]
```

```
Out[91]: Borough      Queens  
          Neighborhood  Corona  
          ID            3fd66200f964a52096e91ee3  
          Name          Corner Bistro  
          Likes          1065  
          Rating         8.3  
          Tips           392  
          Name: 49, dtype: object
```

## Identifying which burger joint ranks first in terms of 'Tips'

```
[92]: burger_joints_stats_ny.iloc[burger_joints_stats_ny['Tips'].idxmax()]
```

```
Out[92]: Borough      Queens  
          Neighborhood  Corona  
          ID            3fd66200f964a52096e91ee3  
          Name          Corner Bistro  
          Likes          1065  
          Rating         8.3  
          Tips           392  
          Name: 49, dtype: object
```

## Identifying which burger joint ranks first in terms of 'Ratings'

```
burger_joints_stats_ny.iloc[burger_joints_stats_ny['Rating'].idxmax()]
```

```
[93]: Borough      Brooklyn  
          Neighborhood  Williamsburg  
          ID            5787b68e498efcabbbeba4f8  
          Name          Shake Shack  
          Likes          505  
          Rating         8.7  
          Tips           80  
          Name: 23, dtype: object
```



	Borough	Average Rating
4	Staten Island	8.200000
1	Brooklyn	7.653333
2	Manhattan	6.945000
3	Queens	6.090000
0	Bronx	3.778261

Staten Island is the borough with the highest average burger joint rating

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Top 10 Neighborhoods  
in terms of average  
burger  
joint ratings

	Neighborhood	Average Rating
	Ridgewood	8.7
	Williamsburg	8.7
	Forest Hills Gardens	8.7
	North Side	8.7
	Hollis	8.7
	Battery Park City	8.7
	Financial District	8.7
	East Williamsburg	8.7
10	Briarwood	8.7
46	Jamaica Hills	8.7

# Conclusion

Answers to previously raised questions-

1. There are 97 burger joints across NYC
2. Borough that have the highest concentration of Burger Joints is Queens & Neighborhoods that have the highest concentration of Burger Joints are Chinatown and Civic Center
3. Multiple neighborhoods are tied at 8.7 rating for the best burger joints
4. The best burger joint in terms of likes and tips is the Corner Bistro located in Corona, Queens while the best burger joint in terms of rating is Shake Shack located in Williamsburg, Brooklyn