

# **Best place to open an Indian Restaurant in New York**

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**June 10, 2020**

## **1. Introduction**

### **1.1. Background**

Indians constitute one of the largest and fastest growing ethnicities in New York City in the United States. Indian cuisine is very popular among Asian Indians in the United States. The growth in the New York City metropolitan region's Asian Indian populace has been accompanied by growth in the number of Indian restaurants. Therefore, this report explores which neighborhoods and boroughs of New York City have the most as well as the best Indian restaurants. This analysis can be used to select the best location in New York to open Indian Restaurant based on the location density of the current Indian Restaurants and their reviews by users. For example, this analysis can be used to target locations with lesser competition and more concentration of Indian community.

### **1.2. Problem**

Data that might contribute to determining best places to open a restaurant is higher demand and less competition. It can also be used to determine where to look for restaurants if someone wants great Indian food. The project aims at determining this by using metrics such as restaurant user ratings and likes and Indian Restaurant location metrics.

### **1.3. Interest**

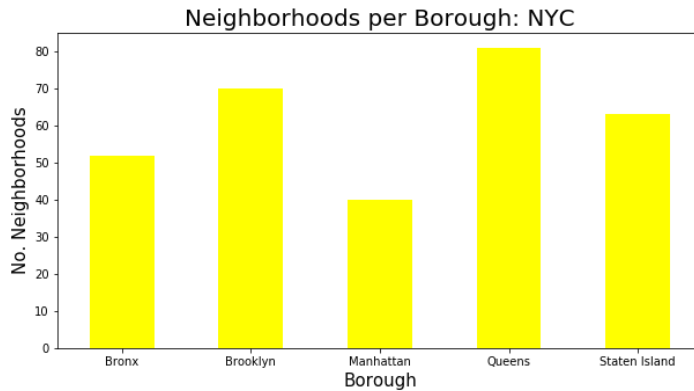
Any person who wants to open an Indian restaurant in New York can utilize this analysis to select the best location. This analysis can also be used to suggest the best place to stay in order to find the best Indian Restaurant to eat nearby.

## **2. Data acquisition and cleaning**

New York City data containing the neighborhoods and boroughs, latitudes, and longitudes will be obtained from the data source: [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset). The data features include Borough, Neighborhood, Latitude and Longitude. The data for locations and ratings and user likes of Indian restaurants will be obtained from the FourSquare API: <https://foursquare.com/developers/apps>. The data features include Name of the Restaurants, its Neighborhood, Borough, Likes, Ratings and Tips as in Foursquare

### 3. Exploratory Data Analysis

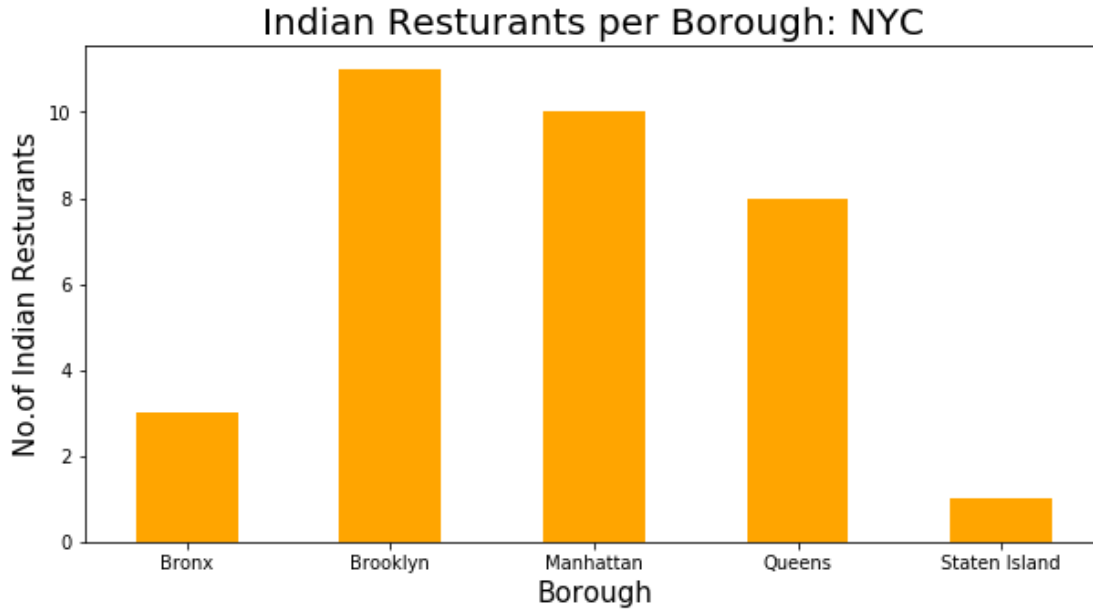
- 3.1. The number of neighborhoods per borough were plotted. This gave an estimation of the most number of neighborhoods per borough were in Queens.



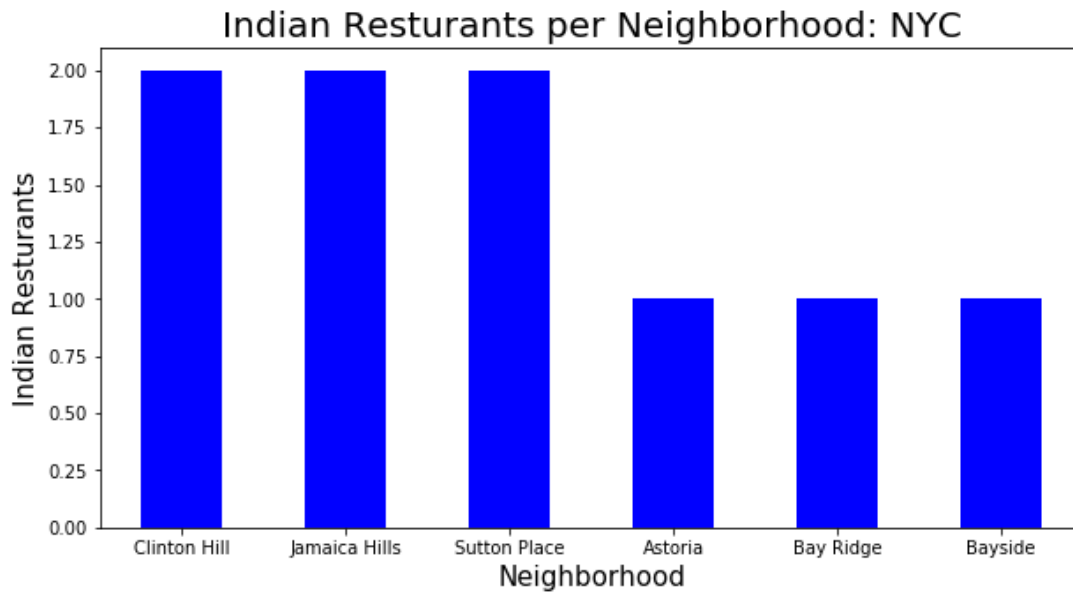
- 3.2. The population of Indian Community in New York Neighborhoods were extracted from [https://en.wikipedia.org/wiki/Indians\\_in\\_the\\_New\\_York\\_City\\_metropolitan\\_region](https://en.wikipedia.org/wiki/Indians_in_the_New_York_City_metropolitan_region) to be as follows. This shows maximum Indian Communities settled in Queens.

Indian Americans	
Borough	
Queens	144,896
Brooklyn	25,270
Manhattan	24,359
The Bronx	16,748
Staten Island	6,646
Total (2014)	227,994

- 3.3. Further the number of Indian Restaurants were plotted per borough in NYC. This shows that the maximum number of Indian Restaurants were in Brooklyn with the second highest number of Indian population.



3.4. Indian Restaurants per neighborhood were plotted is found to be as follows. Clinton Hills in Brooklyn has the largest number of Indian Restaurants



Based on the data from Foursquare, we get the restaurants with highest Ratings and maximum likes as follows:

3.5. Based on the data from Foursquare, we get the restaurants with highest Ratings and Maximum likes as follows:

Highest Rating : Dosa Royale, in Fort Greene, Brooklyn

Most Likes: Tamarind Tribeca, in Tribeca, Manhattan

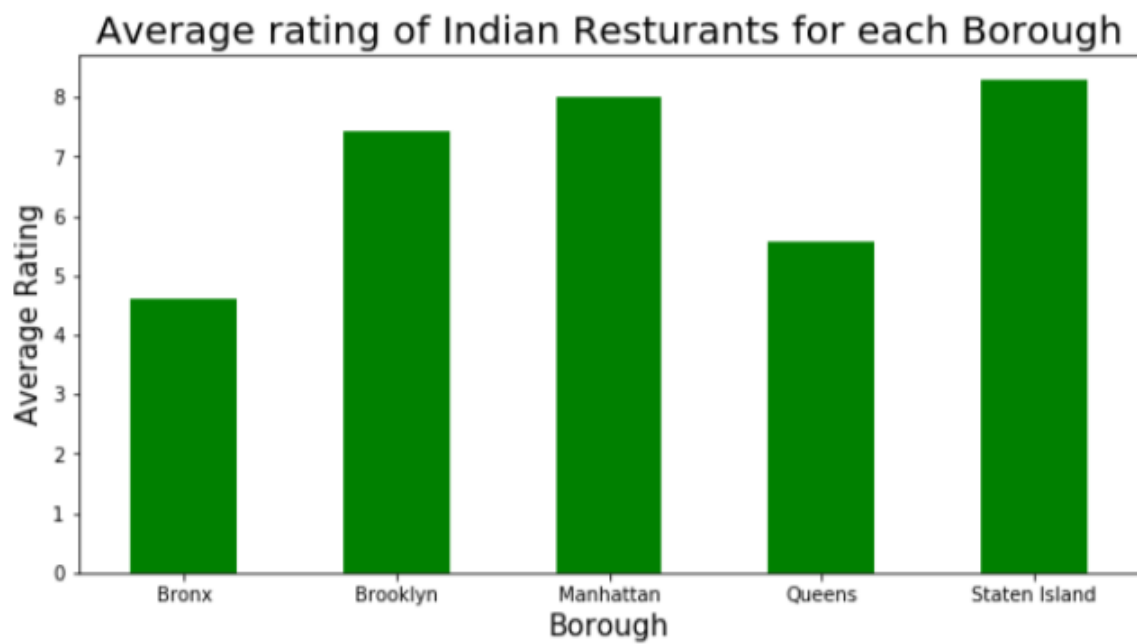
```
Borough           Manhattan
Neighborhood      Tribeca
ID                4bbb9dbded7776b0e1ad3e51
Name              Tamarind TriBeCa
Likes             590
Rating            8.6
Tips              148
Name: 21, dtype: object
```

```
Borough           Brooklyn
Neighborhood      Fort Greene
ID                57596dad498e732300496b23
Name              Dosa Royale
Likes             77
Rating            8.8
Tips              22
Name: 8, dtype: object
```

3.6. The average rating per neighborhood and borough is as follows:

Neighborhood	Average Rating
Fort Greene	8.8
Prospect Lefferts Gardens	8.7
Tribeca	8.6
Sutton Place	8.4
North Side	8.4
New Dorp	8.3
Greenwich Village	8.2
Bayside	8.2
Washington Heights	8.0
Boerum Hill	8.0

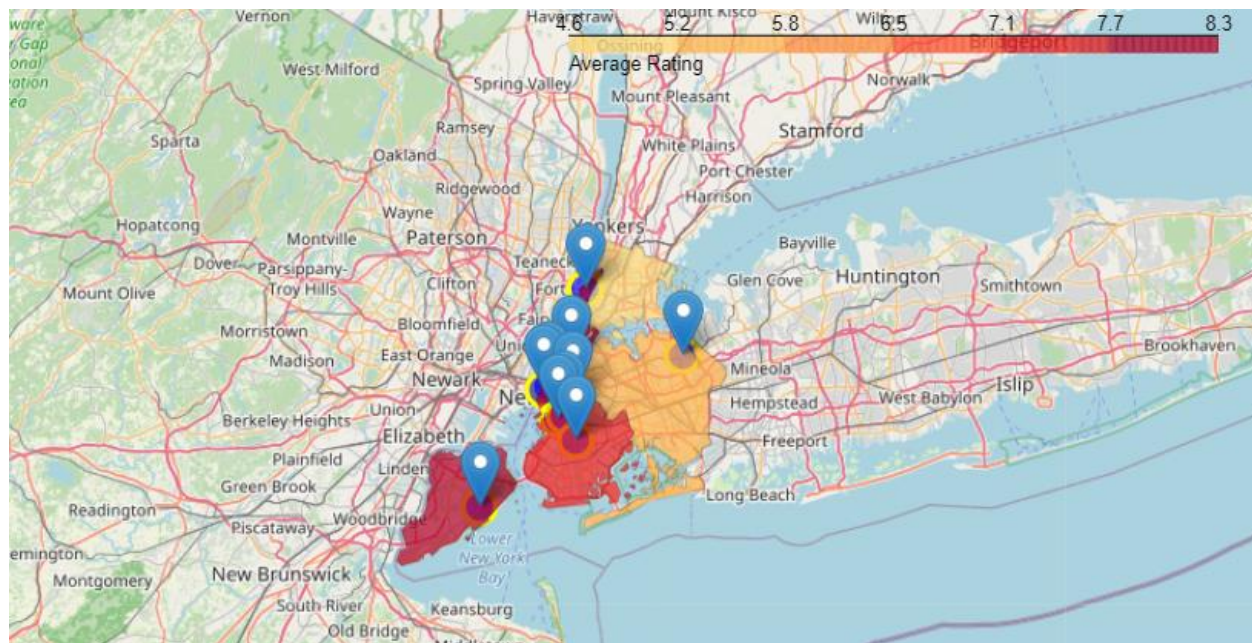
Borough	Average Rating
Staten Island	8.300000
Manhattan	8.000000
Brooklyn	7.445455
Queens	5.587500
Bronx	4.600000



3.7. The average Rating greater than 8.0 is shown as follows:

Neighborhood	Average Rating
Bayside	8.2
Boerum Hill	8.0
Fort Greene	8.8
Greenwich Village	8.2
New Dorp	8.3
North Side	8.4
Prospect Lefferts Gardens	8.7
Sutton Place	8.4
Tribeca	8.6
Washington Heights	8.0

3.8. Finally we visualize the map based on rating:



## 4. Conclusions

Dosa Royale and Tamarind Tribeca have the best rated Indian restaurants on average. Staten Island has the least amount of Indian restaurants per borough. However, of note, Clinton Hills of Brooklyn is the neighborhood in all of NYC with the most Indian Restaurants. Despite Manhattan having the least number of neighborhoods in all five boroughs, it has the second most Indian restaurants and the restaurant with most likes. Based on this information, I would state that Manhattan and Staten Island are the best loc

ations for Indian cuisine in NYC. To have the best shot of success, I would suggest to open an Indian restaurants in Staten Island. Staten Island has multiple neighborhoods with average ratings exceeding 8.0 of a scale of 1.0 to 10.0 and has the least number of Indian restaurants making competition easier than in other boroughs. Finally, I would suggest to go to Dosa Royale and Tamarind Tribeca for the best Indian food based on likes and ratings