

Finding the Optimal Location for a new Indian Restaurant in NYC

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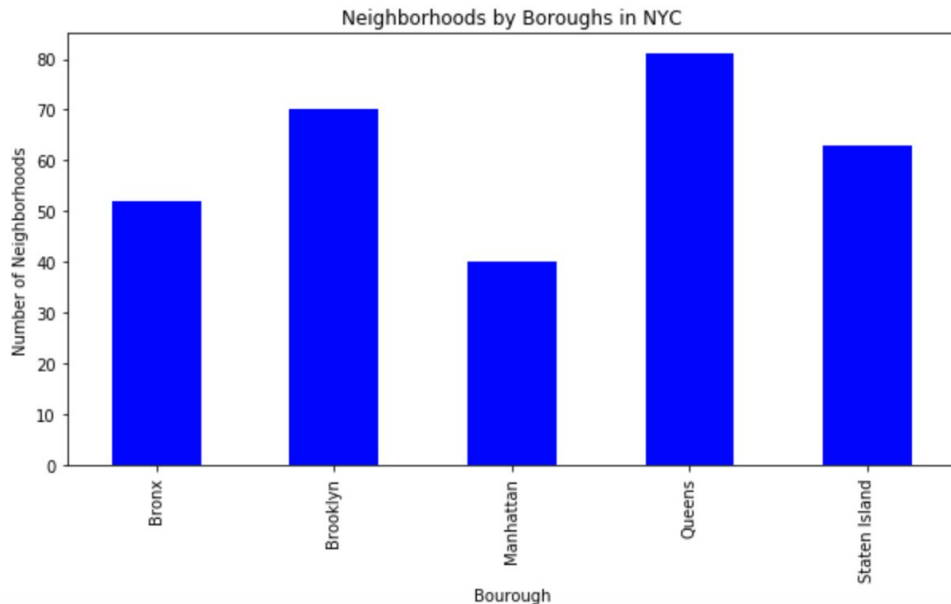
Why is this valuable?

- Using FourSquare we can use data to find out the best position to open up a new Indian Restaurant
- This helps out new restaurant owners who want to open a new shop
- This helps them open up in an area that allows them to make money and not close up their restaurant

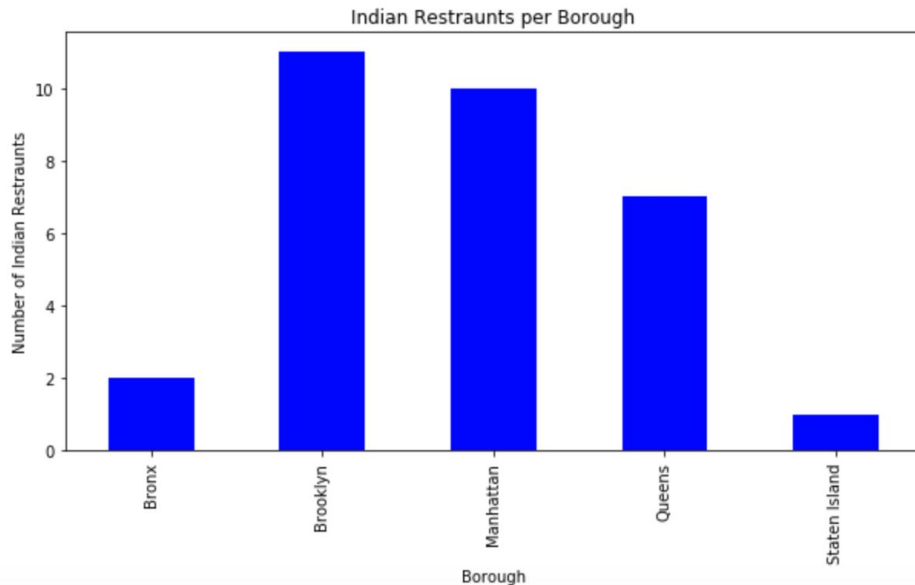
Data Used

- 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
- New York City data containing neighborhood boundaries will be obtained from the data source:
<https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
- All data related to locations and quality of Indian restaurants will be obtained via the FourSquare API utilized via the Request library in Python.

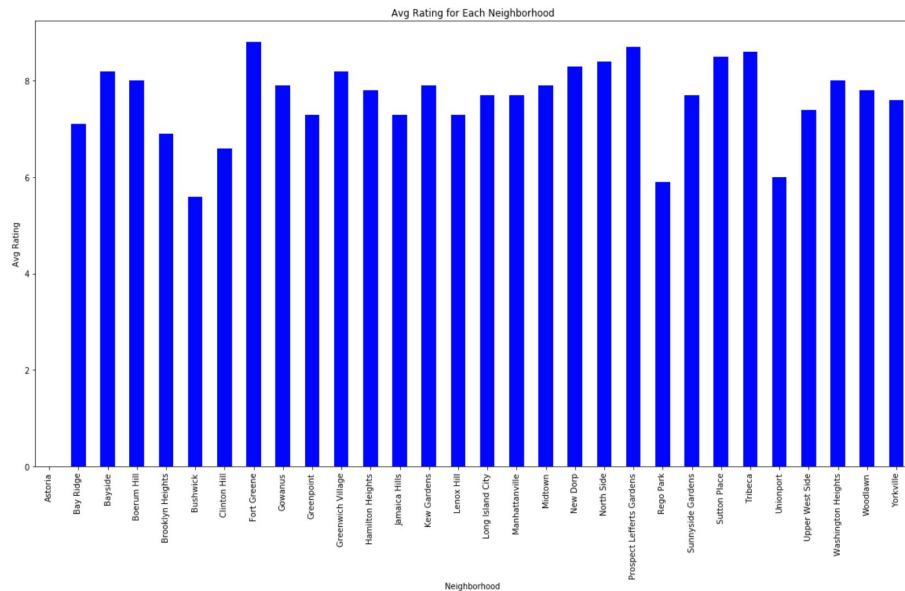
Neighborhood concentration in different Boroughs



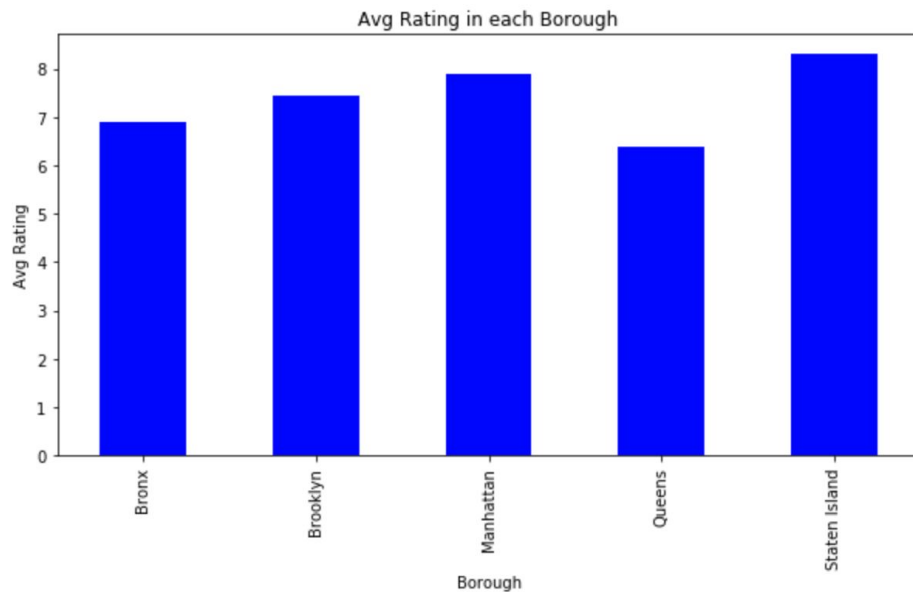
How many Indian Restaurants are in each Borough?



Average Rating in each Neighborhood



Average Rating in Each Borough



:

	Borough	Avg Rating
3	Queens	6.385714
0	Bronx	6.900000
1	Brooklyn	7.445455
2	Manhattan	7.900000
4	Staten Island	8.300000

Indian Restaurants in Queens

- Chosen because Queens has the lowest rating among all the Boroughs in Indian Restaurant
- Avg Rating: 6.385714

	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
22	Queens	Astoria	0	0	0.0	0.0	0.0
23	Queens	Kew Gardens	5782c9ce498edde587f5aa14	Tikka Indian Grill	10.0	7.9	2.0
24	Queens	Long Island City	50a287a7e4b0033f830f06db	Raj's Indian Kitchen	25.0	7.7	13.0
25	Queens	Rego Park	4b3a8aa5f964a520996925e3	Sajni 026	3.0	5.9	6.0
26	Queens	Bayside	4f1f4996e4b01ff351a7a50c	Ayna Agra Indian Restaurant	38.0	8.2	12.0
28	Queens	Jamaica Hills	4c434b2bd691c9b6ef8f8f0a	Sagar Restaurant	10.0	7.3	6.0
30	Queens	Sunnyside Gardens	4c48da9f3013a59356c5f0e1	Saffron Garden	17.0	7.7	16.0

Indian Restaurants in Bronx

- Chosen because Bronx has the second lowest rating between Boroughs
- Has second least indian restaurants in borough
- Avg Rating: 6.9

	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
0	Bronx	Woodlawn	4c0448d9310fc9b6bf1dc761	Curry Spot	5.0	7.8	10.0
1	Bronx	Unionport	4c194631838020a13e78e561	Melanies Roti Bar And Grill	3.0	6.0	2.0

Indian Restaurants in

- Chosen because it only has one indian restaurant in borough
- Avg Rating: 8.3

	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
27	Staten Island	New Dorp	4be74a502468c928505a0243	Taste Of India II	29.0	8.3	14.0

Conclusion(Options to put Indian Restaurants)

Option 1: The Bronx

- Only two restaurants
- Both mediocre ratings(6.0 and 7.8)

Option 2: Staten Island

- Only one restaurant
- Even though the restaurant has a high rating(8.3) you can open the restaurant in a different neighborhood than New Dorp where it is located