

Battle of the Neighborhoods

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Introduction

- New York is an incredibly diverse city
- People come from literally all over
- Questions to answer:
 - What is the best location in New York City for Indian cuisine?
 - What areas have good potential for an Indian restaurant?
 - Where should one absolutely avoid Indian cuisine?

Data Requirements

1. List of boroughs and neighborhoods in New York City
2. List of Indian restaurants in each neighborhood of New York City
3. GeoSpace data containing boundaries of each New York boroughs

```
In [6]: new_york_data=get_new_york_data()
```

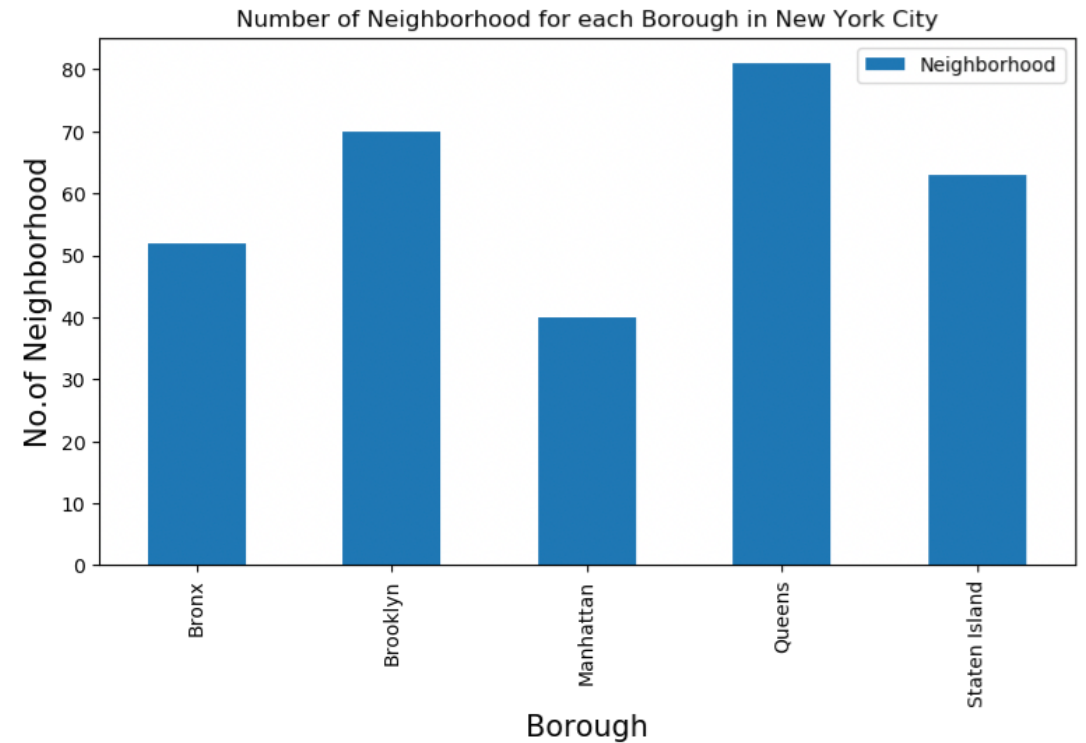
```
In [7]: new_york_data.head()
```

Out[7]:

	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585

```
In [8]: new_york_data.shape
```

Out[8]: (306, 4)



Methodology

COLLECTED NYC DATA,
FOUND ALL VENUES FOR
EACH NEIGHBORHOOD
USING FOURSQUARE API

Methodology (cont.)

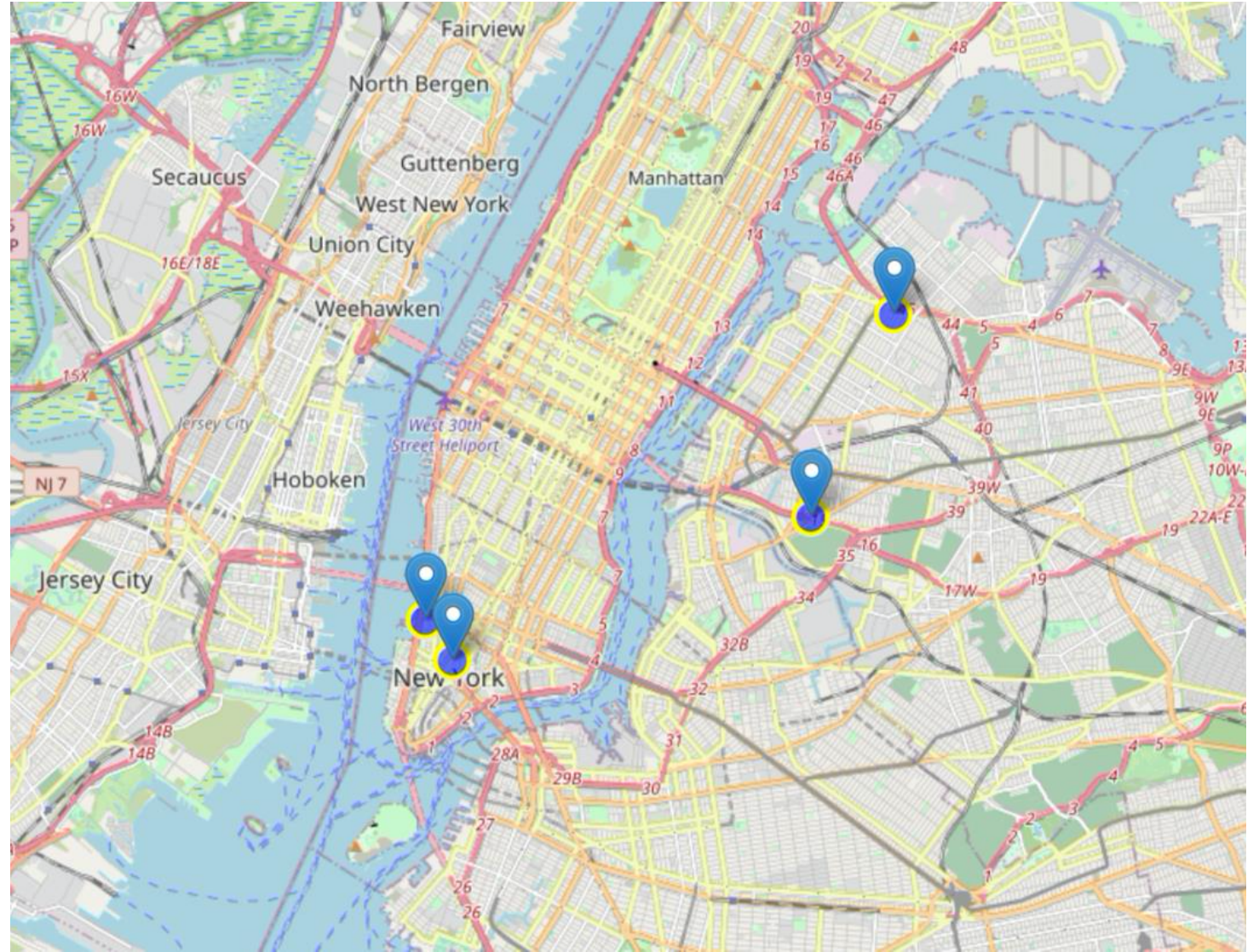
- Filtered all venues with Indian restaurants
- Found ratings, tips, and likes for all restaurants

```
( 1 / 306 ) Indian Resturants in Wakefield, Bronx:0
( 2 / 306 ) Indian Resturants in Co-op City, Bronx:0
( 3 / 306 ) Indian Resturants in Eastchester, Bronx:0
( 4 / 306 ) Indian Resturants in Fieldston, Bronx:0
( 5 / 306 ) Indian Resturants in Riverdale, Bronx:0
( 6 / 306 ) Indian Resturants in Kingsbridge, Bronx:0
( 7 / 306 ) Indian Resturants in Marble Hill, Manhattan:0
( 8 / 306 ) Indian Resturants in Woodlawn, Bronx:1
( 9 / 306 ) Indian Resturants in Norwood, Bronx:0
( 10 / 306 ) Indian Resturants in Williamsbridge, Bronx:0
( 11 / 306 ) Indian Resturants in Baychester, Bronx:0
( 12 / 306 ) Indian Resturants in Pelham Parkway, Bronx:0
( 13 / 306 ) Indian Resturants in City Island, Bronx:0
( 14 / 306 ) Indian Resturants in Bedford Park, Bronx:0
( 15 / 306 ) Indian Resturants in University Heights, Bronx:0
( 16 / 306 ) Indian Resturants in Morris Heights, Bronx:0
( 17 / 306 ) Indian Resturants in Fordham, Bronx:0
( 18 / 306 ) Indian Resturants in East Tremont, Bronx:0
( 19 / 306 ) Indian Resturants in West Farms, Bronx:0
```

	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
0	Bronx	Woodlawn	4c0448d9310fc9b6bf1dc761	Curry Spot	5	7.6	10
1	Bronx	Parkchester	4c194631838020a13e78e561	Melanies Roti Bar And Grill	3	5.8	2
2	Bronx	Spuyten Duyvil	4c04544df423a593ac83d116	Cumin Indian Cuisine	13	6.1	9
3	Bronx	Concourse	551b7f75498e86c00a0ed2e1	Hungry Bird	8	6.9	3
4	Bronx	Unionport	4c194631838020a13e78e561	Melanies Roti Bar And Grill	3	5.8	2

Methodology (cont.)

- Finally, using ratings to constrain data, sort neighborhoods and borough. Limit map visualization to ratings ≥ 9.0 and visualize the joined dataset with Folium.



Result

- We can now answer our questions
 - The best location for Indian food in NYC is Queens.
 - Manhattan has potential for Indian restaurants.
 - Avoid Staten Island's Indian cuisine!