

Applied Data Science Capstone

The Battle of Neighborhoods

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Introduction

- The City of Toronto

- one of the most multicultural and multiracial cities in the world
- More than 50 percent of residents belong to a visible minority population group, and over 200 distinct ethnic origins are represented among its inhabitants.
- Almost 51% of the entire Indian Canadian community resides in the Greater Toronto Area.
- Many types of restaurants serving food from different cultures such as Chinese, Japanese, Indian, Italian, etc.

Aim: To obtain the data of Indian restaurants located in various neighborhoods, boroughs in Toronto and organize the data based on neighborhood, likes and ratings of restaurants, which can help people to gain clear information about Indian restaurants located in Toronto.



Problem

- Based on the collected information of Indian restaurants located in Toronto, we will find the answers of following questions:
- 1. Which restaurant is the best choice, if you are looking for the best Indian food in Toronto?
- 2. Which neighborhood/borough has the highest number of Indian restaurants?
- 3. Which are the 5 neighborhoods that have the best Indian food in Toronto?
- 4. Which are the top 3 boroughs to stay if you want to find the best Indian food around



Data Description

- Using the link, we will be preparing the dataset containing the details of different neighborhoods, boroughs and their respective latitudes, longitudes with the help of libraries such as bs4, json and pandas, etc.
- Link: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
- Using Foursquare API,
 1. Restaurant Borough
 2. Restaurant Neighborhood
 3. Venue ID(Restaurants)
 4. Venue name e.g., the name of a restaurant
 5. Restaurant Likes
 6. Restaurant Rating
 7. Restaurant Tips

Indian restaurants in Toronto dataframe

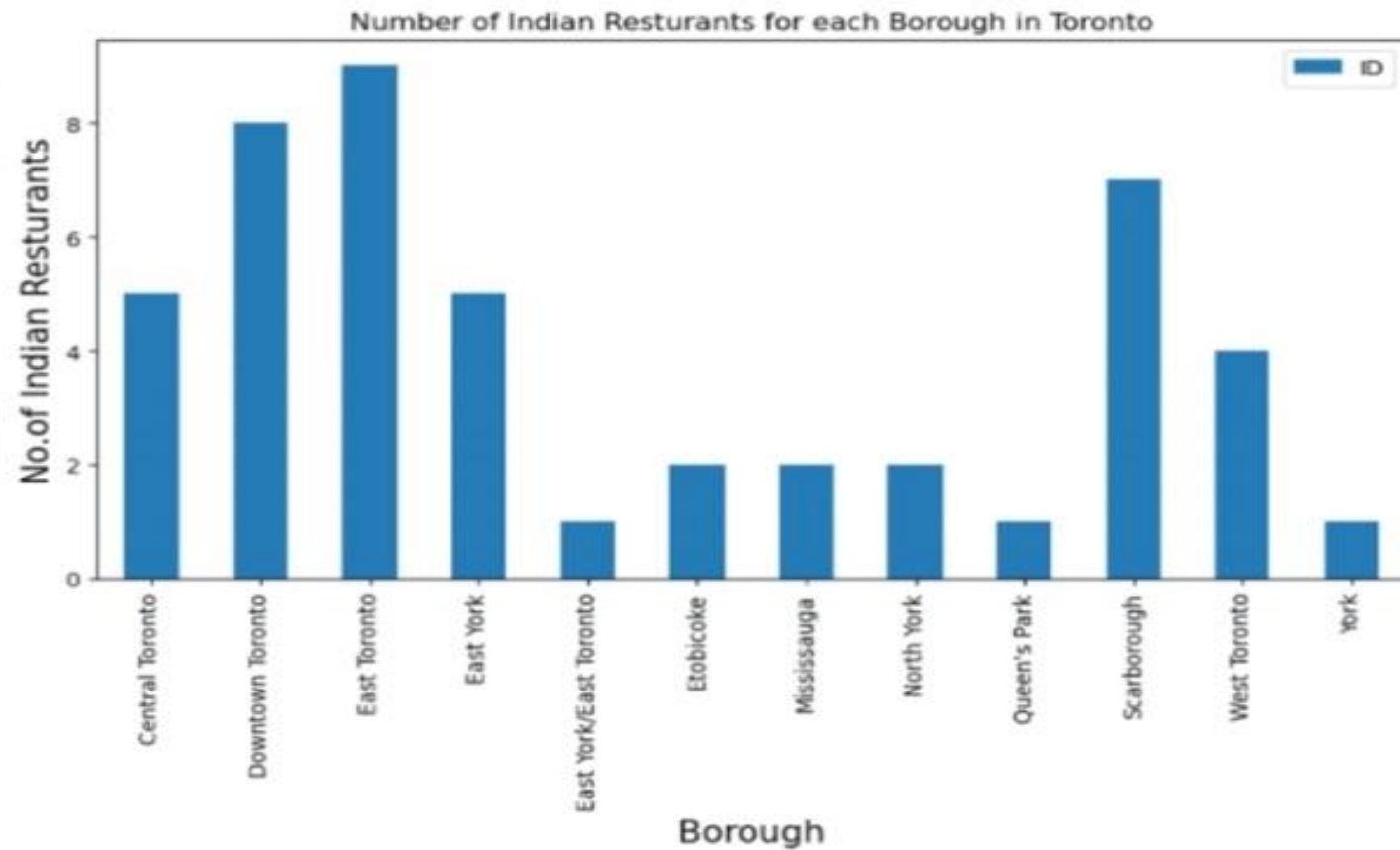
	Borough	Neighbourhood	ID	Name
0	Downtown Toronto	Regent Park, Harbourfront	4af9a379f964a520c91222e3	Bombay Palace
1	Downtown Toronto	Regent Park, Harbourfront	52af6dc5498e33995b0bbf03	Sultan Of Samosas
2	Queen's Park	Ontario Provincial Government	4bedf8b5e24d20a17b567214	Kothur Indian Cuisine
3	East Toronto	The Beaches	4dcd7c6352b1f8915b7e7f7e	Delhi Bistro
4	Scarborough	Woburn	4c632edeedd320a19ad5ae29	Bombay Palace
5	East York	Leaside	504bcf32e4b0ef19b0e2ecf8	Mt Everest Restaurant
6	Downtown Toronto	Christie	4adb969ef964a520332921e3	Banjara Indian Cuisine
7	Downtown Toronto	Christie	4b7369d7f964a52049ad2de3	Madras Masala
8	Scarborough	Cedarbrae	4d6008f829ef236a8832a059	CANBE Foods Inc
9	Scarborough	Cedarbrae	4c77fc87bd346dcb8c90f0ef	La Sani Grill
10	East York	Thorncliffe Park	4daf08e66e81e2dffdd4fe40	Iqbal Kebab & Sweet Centre



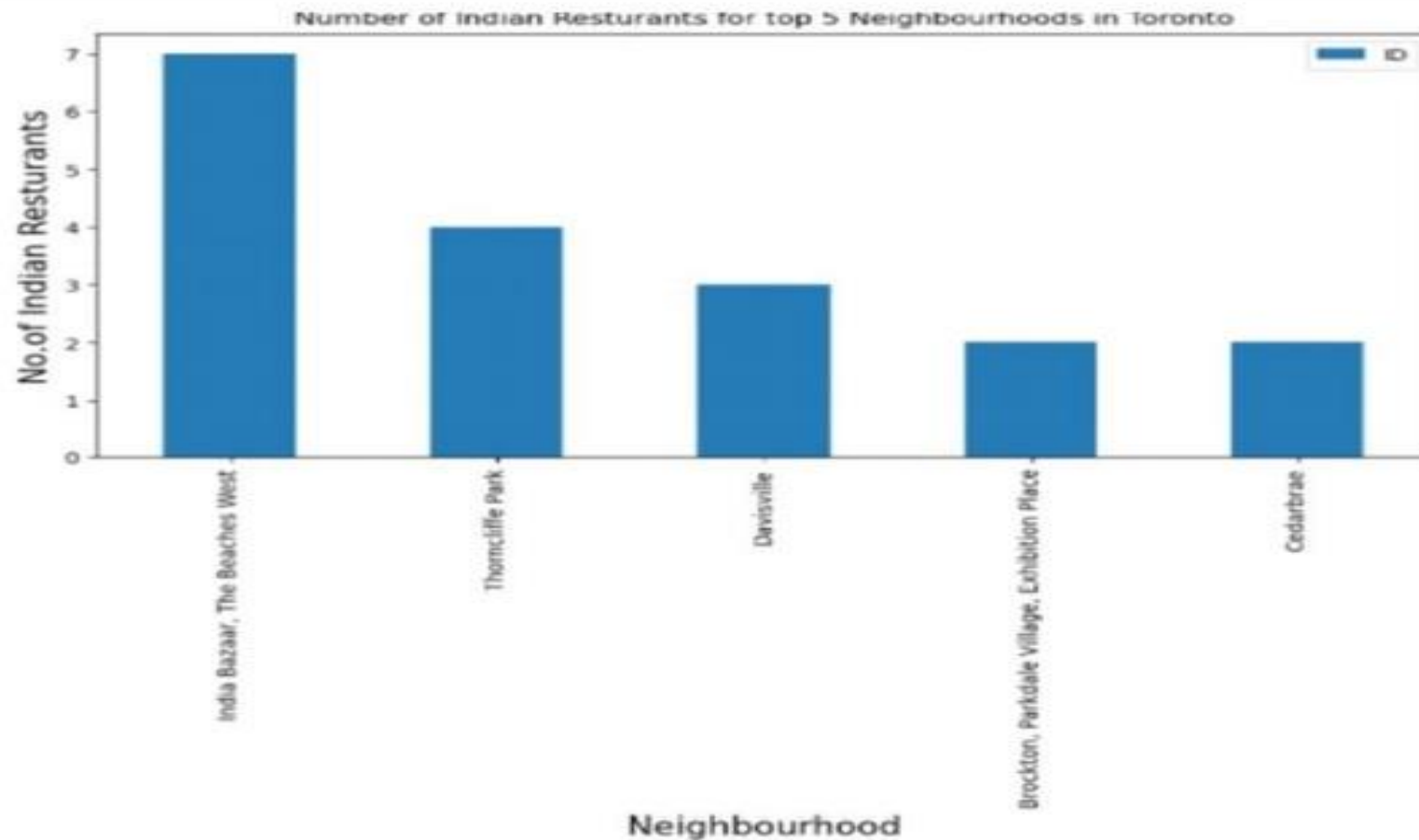
Indian restaurant with best ratings,
highest likes and tips in Toronto

```
Borough          Downtown Toronto
Neighbourhood      Christie
ID                4adb969ef964a520332921e3
Name              Banjara Indian Cuisine
Likes             142.0
Rating            8.8
Tips              75.0
Name: 6, dtype: object
```

Indian restaurants in each borough



Top 5 neighborhoods with high number of Indian restaurants

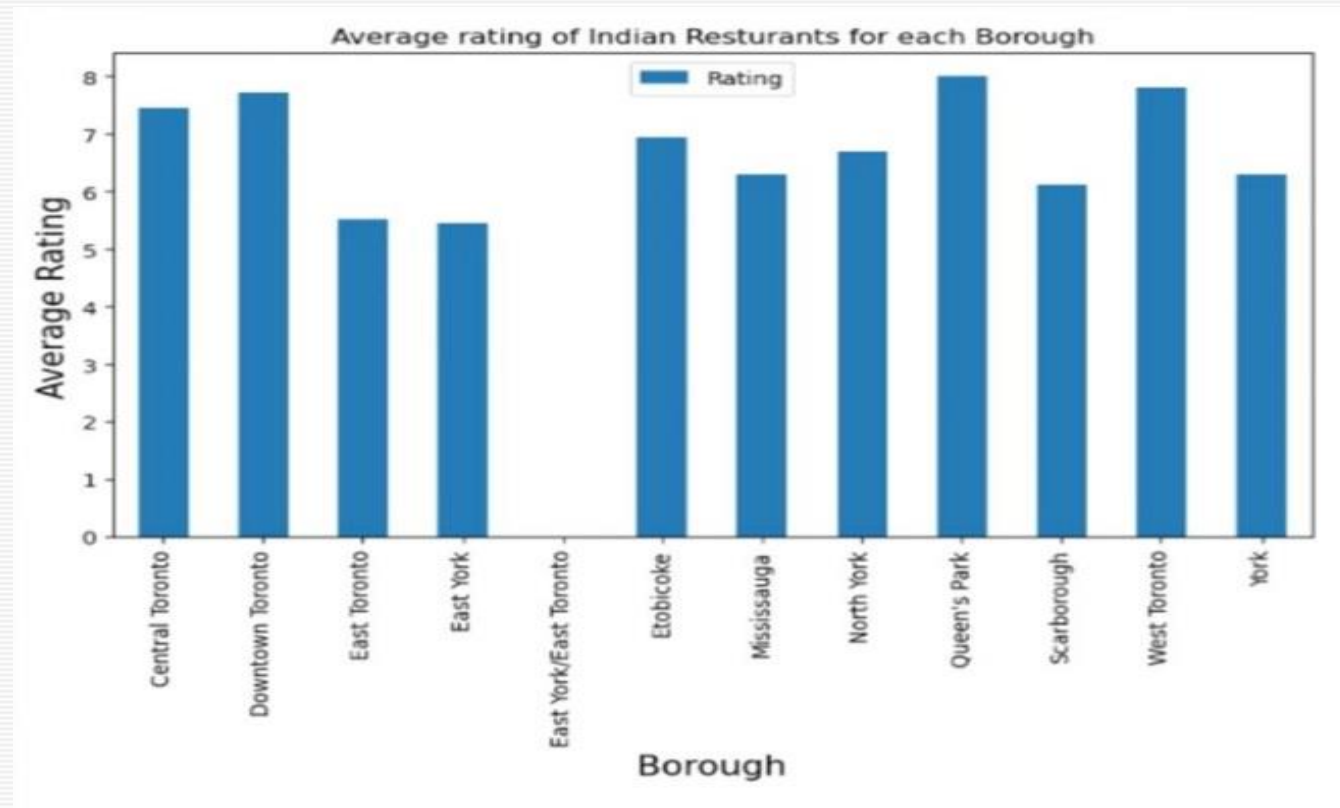




10 neighborhoods with higher average ratings of Indian restaurants.

Neighbourhood	Average Rating
The Annex, North Midtown, Yorkville	8.400000
Christie	8.300000
High Park, The Junction South	8.300000
Church and Wellesley	8.050000
Ontario Provincial Government	8.000000
Wexford, Maryvale	8.000000
Brockton, Parkdale Village, Exhibition Place	7.950000
St. James Town, Cabbagetown	7.900000
Davisville	7.333333
Harbourfront East, Union Station, Toronto Islands	7.300000

average rating of Indian restaurants of each borough



Conclusion

- 'Banjara Indian Cuisine' is the best choice if you are looking for the best Indian food in Toronto
- 'India Bazaar, The Beaches West' neighborhood has the highest number of Indian restaurants (7) in Toronto than any other neighborhoods in Toronto.
- East Toronto has 9 Indian restaurants, which is the highest among all the boroughs
- The Annex, North Midtown, Yorkville, Christie, High Park, The Junction South are the top 5 neighborhoods for best restaurants in Toronto to eat Indian food.
- Queen's Park, West Toronto, Downtown Toronto are the top 3 boroughs for average rating of Indian restaurants.