Battle Of Neighborhood: Week-4

Background and Problem Statement

Toronto is the most populous city in Canada with a population close to 3 million. It is a diverse and multicultural city with a large Indian community. Toronto has a vibrant food scene with Indian cuisine being very popular.

Joy Foods Pvt Limited has been successfully running a chain of high quality Indian restaurants in the US. They wish to tap in to the growing market in Canada and have identified Toronto to be their first location for opening a new Indian restaurant. The restaurant business in Toronto is quite competitive and location is key to success of the business. Hence, the company has hired RV Data Analytics firm to analyze the Indian restaurants in Toronto and recommend the best location to open a high quality Indian restaurant.

Data and Approach

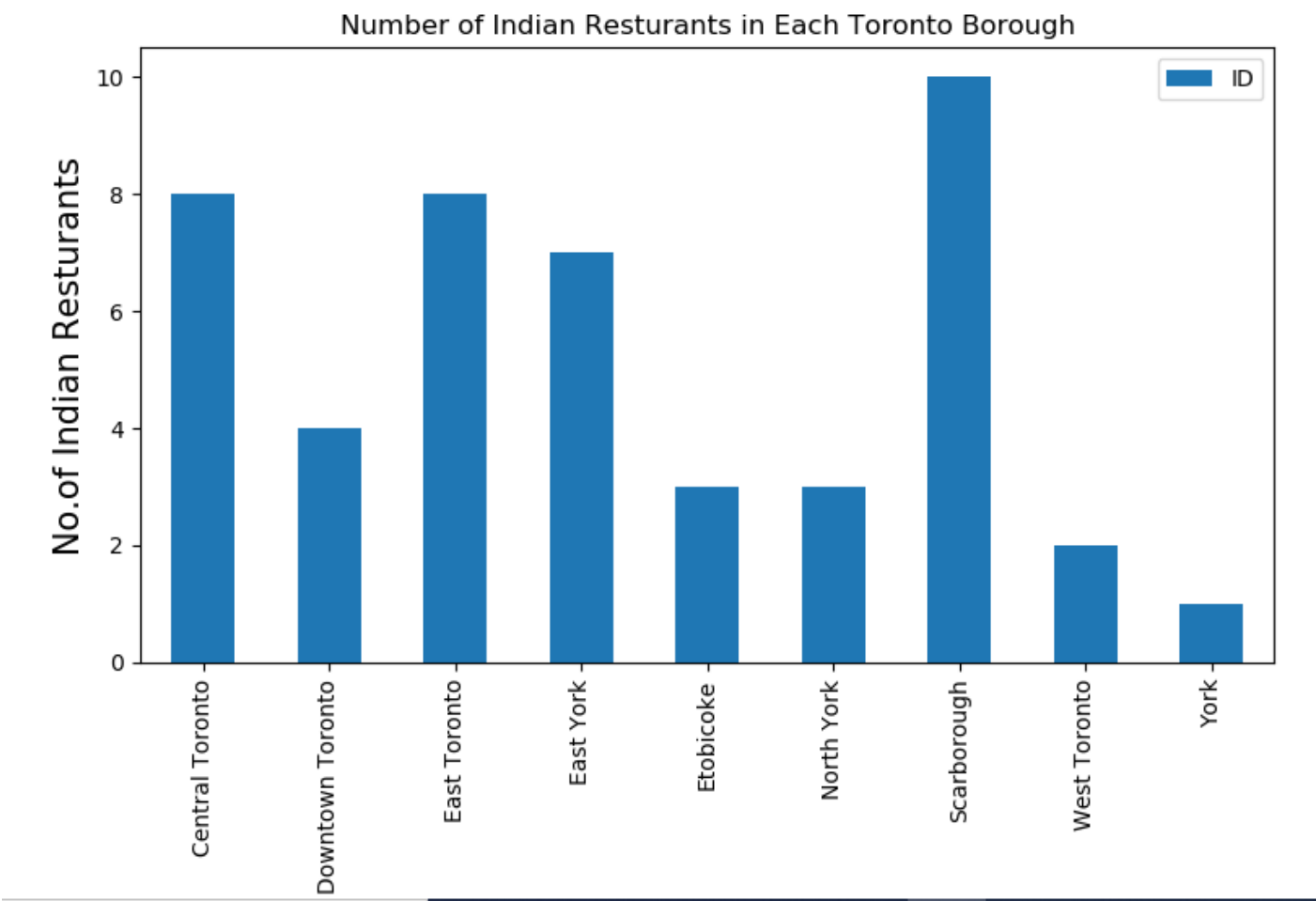**For performing this analysis, RV Data Analytics will use the following data:**

1. Description of Toronto boroughs and neighborhoods from the website ('https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M (https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)')

1. Latitude and longitude of the neighborhoods using Geocoder

1. Details of Indian Restaurants in each neighborhood using FoUrsquare API

The following approach will be adopted for the analysis

1. Collect borough, neighborhood, latitude, longitude data
2. Using FourSquare API, find all venues for each neighborhood
3. Filter venues for Indian Restaurants.
4. Determine total number of Indian restaurants in Toronto and count them by borough
5. Find rating , tips and like count for each Indian Restaurants using FourSquare API
6. Identify best Indian restaurant in Toronto
7. Analyze ratings data by borough
8. Provide recommendation for best location for opening a new Indian restaurant

Results and Discussion

Based on the analysis, there are a total of 46 Indian restaurants in Toronto spread across the 9 boroughs. The graph below shows the distribution of Indian restaurants by borough. Scarborough has the highest number of Indian restaurants with 10.

The best Indian restaurant in the city of Toronto is Banajara Indian Cuisine in Downtown Toronto. It has the maximum ratings (8.9), likes (145), and tips (75) among all the Indian restaurants.

Based on the ratings of individual Indian restaurants, the average ratings by borough was computed. The table of results is below. Downtown Toronto has the highest average rating. Despite having maximum number of Indian restaurants, the average rating of Indian restaurants in Scarborough is less than 6.0

	Borough	Average Rating
1	Downtown Toronto	8.275000
7	West Toronto	7.450000
0	Central Toronto	7.400000
4	Etobicoke	6.966667
2	East Toronto	6.137500
8	York	6.000000
6	Scarborough	5.980000
3	East York	5.900000
5	North York	4.433333

Conclusion

The Indian restaurants in the city of Toronto were analyzed. There are a total of 46 restaurants spread across the 9 boroughs with Scarborough having the most with 10. However, Downtown Toronto has the highest average rating of Indian restaurants amongst all boroughs. Scarborough fares fairly poorly with am average rating of less than 6.0.

Hence, Scarborough is recommended as a top location for opening a new high quality Indian restaurant.