Battle Of Neighborhoods

Analysis of Indian Restaurants in Greater Toronto Area

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Introduction

- Toronto is an international center of business, finance, arts, and culture, and is recognized as one of the most multicultural and cosmopolitan cities in the world

- The cuisine of Toronto reflects Toronto's size and multicultural diversity.

- Toronto is also home to many fine dining establishments and chain restaurants ranging from fast food to casual or upscale dining.

As a part of this project, we will explore the neighborhoods of Toronto, research and visualize the areas that has great Indian restaurants.

Background and Description of the Problem

- For somebody trying to immigrate to Canada from India, there are multiple things to consider before the migration.

  - Cost of living, housing, demographic and proximity to Indian restaurants and grocery stores

  - Challenge is to identify the best among those restaurants and the areas where they are concentrated

Project Goals
-Answer to questions

- Which is the best place to stay if I prefer Indian Cuisine?

- What is the best location in Toronto for Indian Cuisine?

- Which areas lack Indian Restaurants and have potential for a new Indian Restaurant?

Project Strategy

Data

- Toronto data that contains list Boroughs, Neighborhoods, Postal Code including Latitude and Longitude

  - Data source : 'https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M'

- Indian restaurants in each neighborhood of Toronto.

  - Data source : Fousquare API

Methodology

- Use the **wikipedia** data combined with **Foursquare** to get Borough and Neighborhood with the most number of Indian restaurants.

- Identify the top restaurant for an area based on the results from 1 using 'ratings', 'likes' and 'tips'.

- Utilize *Bar chart* visualization to get insights into Indian restaurant details.

  - Summarize the results and draw conclusion

Steps

- Import necessary libraries for data and feature engineering

- Collect the Toronto data from https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

- Utilize Foursquare API to get the venue details and Indian restaurants

- Get ratings and tips for the restaurants from Foursquare API

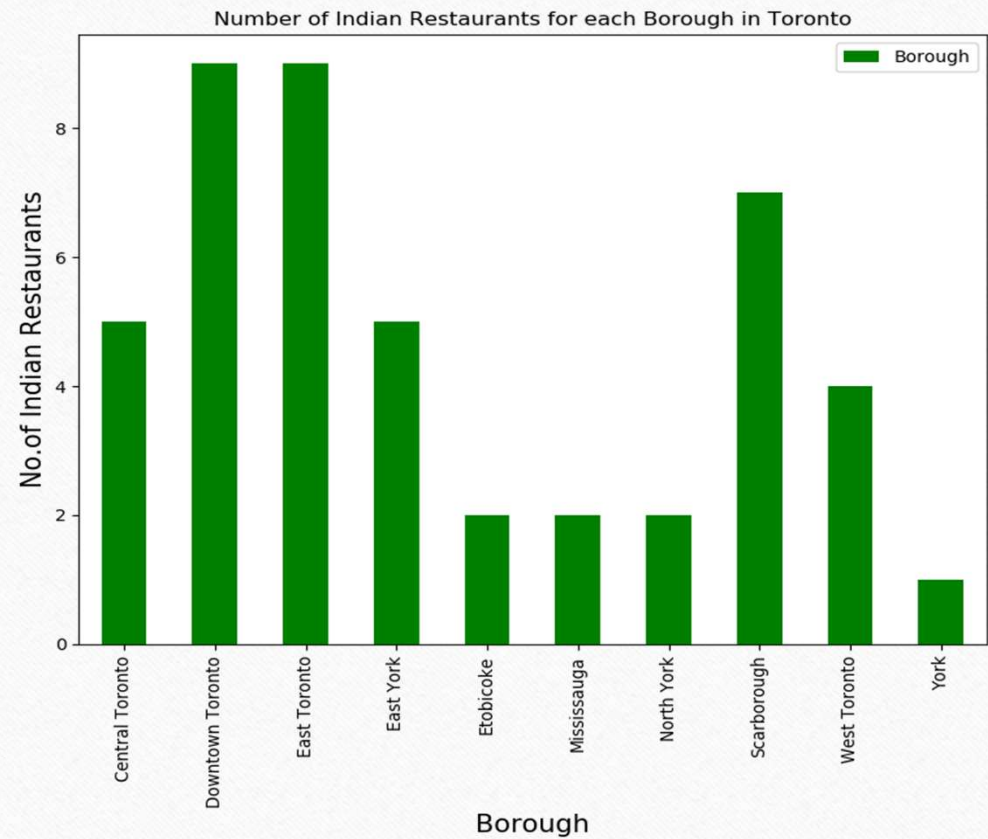- Results, Conclusion and Discussion *** Visualize data as needed for analysis

Data Visualization and Analysis
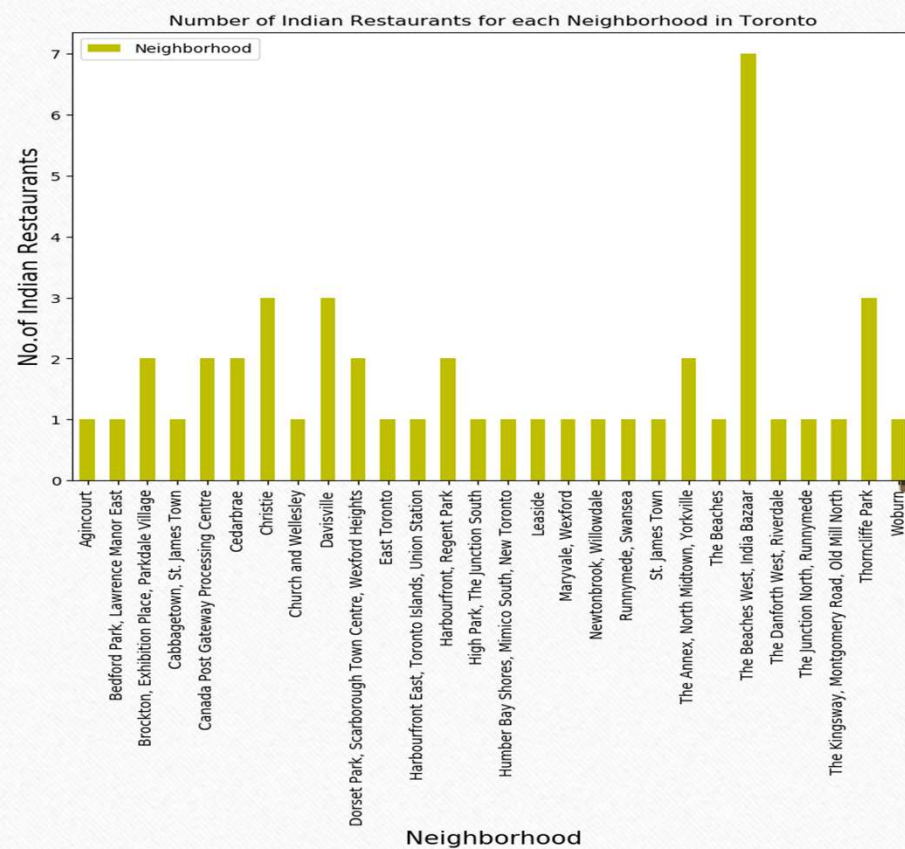
Toronto Indian Restaurants By Borough

- Downtown and East Toronto has more than 9 Indian restaurants

- York has the least number of Indian Restaurants

- Toronto (Downtown, East, West and Central) contributes to the majority of Indian cuisines
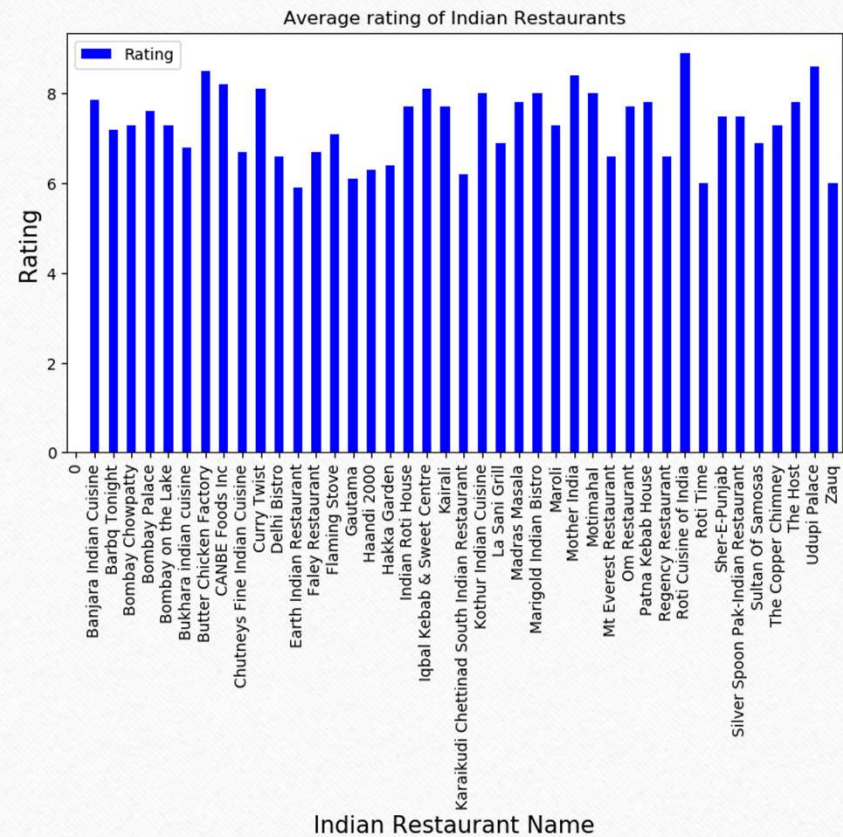

Number of Indian Restaurants for each Borough in Toronto

Toronto Indian Restaurants By Neighborhood

- The Beaches West, India Bazaar Neighborhood has the most Indian restaurants

- Christie, Davisville and Thorncliffe park are the second most popular neighborhoods for Indian cusine

Number of Indian Restaurants for each Neighborhood in Toronto

Indian Restaurants by Rating

- Roti Indian Cuisine is the top rated Indian Restaurant

- Banjara Indian Cuisine and Udupi Palace are also rated high

Average rating of Indian Restaurants

Indian Restaurants in Toronto - Map

Results, Conclusion and Discussion

- The Beaches West, India Bazaar neighborhood in East Toronto Borough is the best place for Indian restaurants

- Christie, Davisville and Thorncliffe park are the next best neighborhoods for Indian cuisine

- Boroughs- Downtown Toronto, East Toronto and Scarborough has the most number of Indian restaurants in Greater Toronto Area

- Banjara Indian Cuisine is rated as the best indian restaurant with cheap pricing

- Roti Indian cuisine is equally good but it is a little expensive

Answer to Questions

- Which is the best place to stay if I prefer Indian Cuisine? **The Beaches West, Indian Bazaar neighborhood**

- What is the best location in Toronto for Indian Cuisine? **Downtown and East Toronto**

- Which areas lack Indian Restaurants and have potential for a new Indian Restaurant? **Etobioke, North York and York seem to have potential for some Indian cuisine. But the demographic and 'likes' need to be researched for market analysis.**

Limitations

- Data accuracy is limited to Foursquare API

- Ratings are solely based on the responses section of Foursquare API

- New restaurants that were not added to the API is not reported

- Folium map is not rendered in the final report and an image of the map is uploaded to GitHub.