

# IBM Data Science Project

Battle for Neighborhood -Toronto Indian Restaurant )

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# Introduction

- Analyze and visualize major parts of Toronto with Indian restaurants
  - Best places in Toronto to find good Indian restaurant.
  - Areas having potential market for Indian restaurant.
  - Neighborhood to stay with good Indian restaurant.
- Audience for the project
  - People moving or visiting Toronto and would like Indian food.
  - who are looking to open an Indian restaurant and keen to know where the potential scope areas are

# Data needed and Source

- List of Neighborhood with details ( Postcode, Borough)

[https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

- Coordinated of the locations

[http://cocl.us/Geospatial\\_data](http://cocl.us/Geospatial_data)

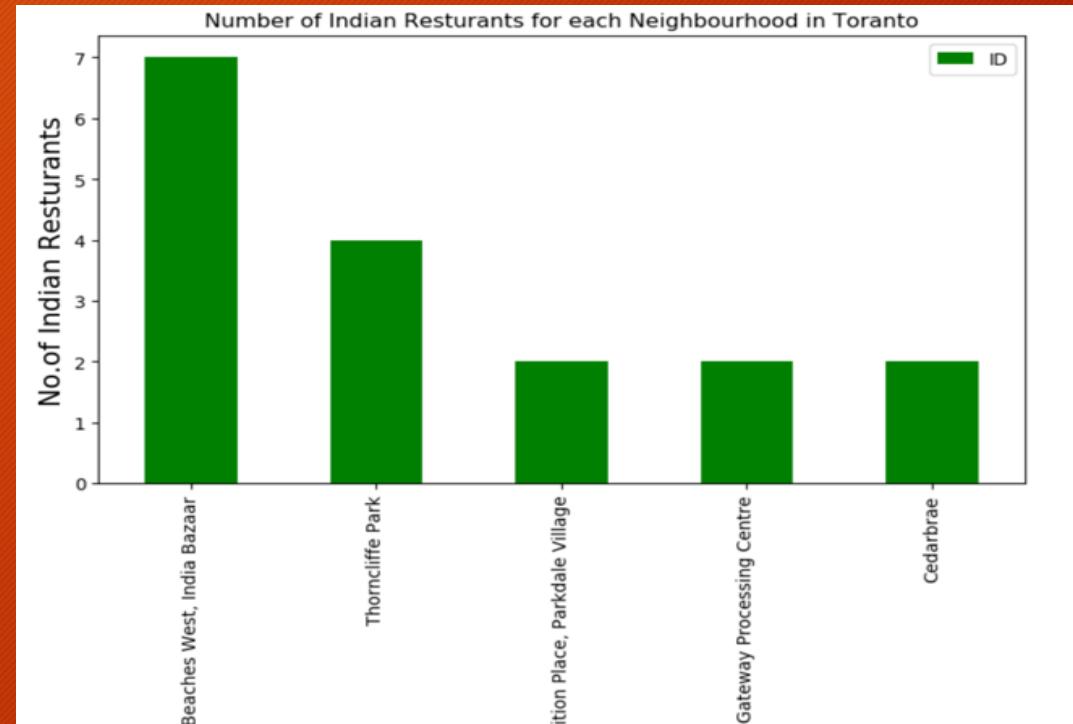
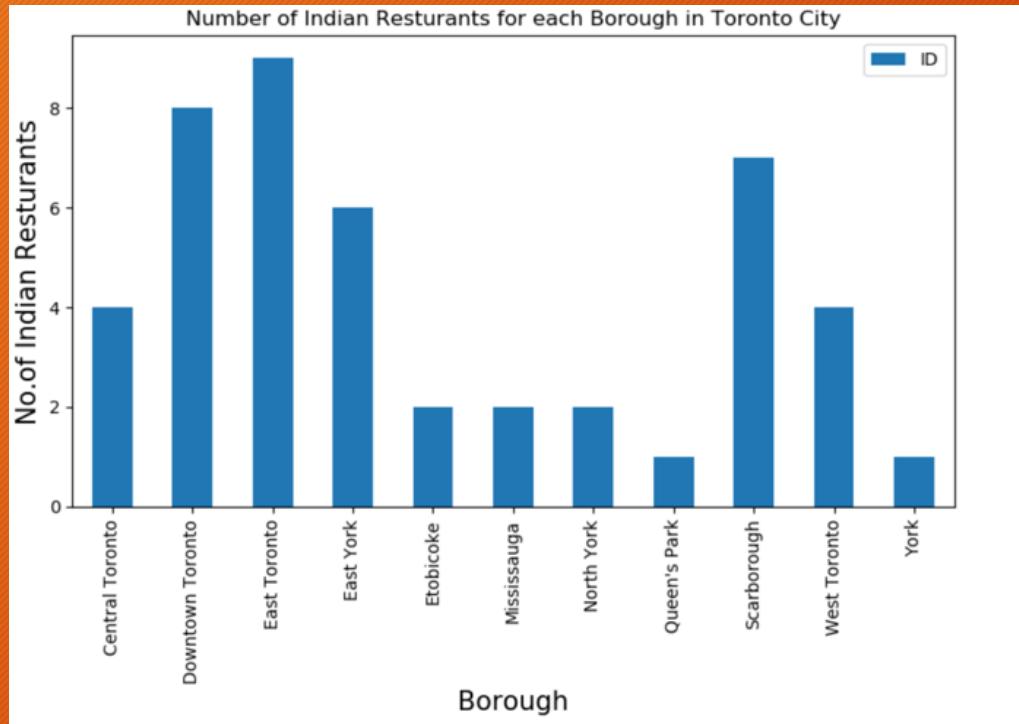
- Indian restaurants at each neighborhood and Ratings

FourSquare API

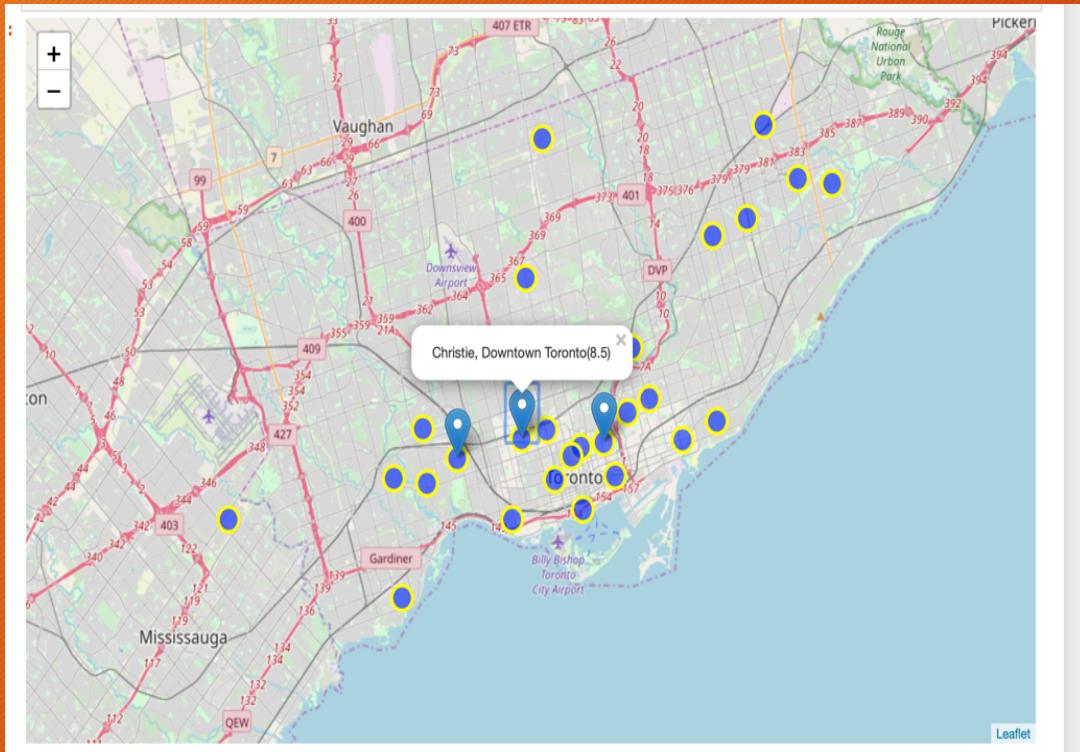
# Methodology

- Neighborhood with corresponding Postcode and Borough are collected into a data frame
- The Data frame is appended with Coordinated of by using the postcode as input and reading the Geospatial data file
- With coordinates of each location, all Indian restaurant within 1 Km radius is determined against each neighborhood using FourSquare API
- Restaurant ID is passed to get Venue details ( Ratings) from Foursquare API.
- Data is sorted , groped to get insights of location with respect to Indian Restaurants.
- Top Neighborhoods in terms of number and best Indian restaurants are determined
- Folium is used to plot the details on the map.

# Results



# Results



Neighbourhood Average Rating		
3	Cabbagetown, St. James Town	8.5
7	Christie	8.5
14	High Park, The Junction South	8.3

Borough Average Rating		
1	Downtown Toronto	7.9625
7	Queen's Park	8.2000
9	West Toronto	7.8000

# Discussion and Conclusion

- East Toronto Borough is the one with largest number of Indian restaurants
- ‘The Beaches West, India Bazaar’ is the number-1 by number of Indian restaurants, followed by Thorncliffe Park
- When it comes to top rated Indian restaurants following neighborhoods
  - Cabbagetown, St. James Town
  - Christie
  - High Park, The Junction South
- With respects to ratings Queen's Park Borough tops
- This also gives insight into where there are gaps in terms of Indian Restaurant. and can be an input for business owners who want to open one.

This result can extend with use of other powerful data like Demography to analysis population in each of the areas where there are gaps in Indian restaurants to help in determining best location to open one. The same method can be applied to other type of business and extended to other cities as well