

EXPLORING NEIGHBORHOODS OF TORONTO TO OPEN AN INDIAN RESTAURANT

1. DESCRIPTION OF THE PROBLEM AND DISCUSSION OF THE BACKGROUND:

Problem Statement: Exploring neighborhoods of Toronto to open Indian Restaurant

Toronto, the capital of the province of Ontario. It is most populous Canadian city. One of the most immigrant-friendly cities in North America with more than half of the entire Indian Canadian Population residing in Toronto it is one of the best places to start an Indian Restaurant.

In this project we go through the step by step process and analyze the neighborhoods in Toronto to identify the most profitable area. As success of the restaurant depends on the people and we already know that Toronto has greater number of Indians here, it is good idea to start restaurant here. But we need to find the best place so that it yields more profit to the owner.

TARGET AUDIENCE

- 1) Business people who wants to open an Indian restaurant in Toronto.
- 2) Indian crowd who wants to find neighborhoods with lots of options for Indian Restaurant.
- 3) Freelancer who wants to have their own restaurant as a side business.

2. DESCRIPTION OF DATA:

- Using "List of Postal code of Canda:M"
(https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M) to get all information about neighborhoods present in Toronto. It includes Postal code, borough & names of all neighborhoods in Toronto and store it in data frame.
- Then using geospatial data (https://cocl.us/Geospatial_data) csv file to get geographical co-ordinates of neighborhoods in Toronto and storing it in a data frame.
- To get location and information about various venues in Toronto I used Foursquare API. From that I'm fetching details about venue like venue name, category, latitude and longitude.
- To get information about distribution of population by their ethnicity I'm using "Demographics of Toronto"

https://en.wikipedia.org/wiki/Demographics_of_Toronto wiki page. Using this I'm going to identify the neighborhoods that are densely populated with Indians as it might be helpful in identifying the suitable neighborhood to open an Indian Restaurant.

First we'll combine the neighborhood data frame and geospatial data frame.

Later using foursquare api we'll explore the venues that are present near each neighborhood.

Next through exploratory data analysis we'll get the information about which neighborhoods has Indian Restaurant.

Another factor that can help us in deciding which neighborhood would be the best option to open a restaurant is, population. Neighborhood that is densely populated with Indian crowd would be an ideal place to open an Indian restaurant.

Finally from the data analysis we can come to conclusion which place is better to open an Indian Restaurant.