

# Data Science Project

---

## **INTRODUCTION**

This is a part of the capstone project for IBM Data Science Professional Certificate. In this project I am assuming that there are not enough Indian Restaurants in Toronto, Canada. A friend of mine wants to expand his family business of hotels in Canada as it might be an opportunity for making a good profit of it facilitating the South Asian community in Toronto. I am designing the project for finding a proper location for the restaurant given that it is quite close enough to the main city.

## **BUSINESS PROBLEM**

The objective of the project is to find most suitable location for the business organisation to open a new Indian Restaurant in Toronto, Canada. By using Machine Learning Algorithms like clustering and a good visualisation tool it is possible to answer the question : Which is a good location in Toronto, Canada to open a Indian Restaurant.

## **TARGET AUDIENCE**

The project targets the organisation which wants to find a location to open a Indian Restaurant given the region.

## **DATA**

To solve the above stated problem, we need the following data :

- Latitude and Longitude of the given location.
- Data related to the Indian restaurants. This will help us to find more suitable location to open the Indian restaurant.
- Neighborhoods in Toronto, Canada.

## **FETCHING THE DATA**

- Scrapping the Wikipedia page of Toronto neighborhoods.
- Identifying the latitude and longitude data of the neighborhoods using GeoCoder package or using a predefined set of data pertaining to the same.
- Using Foursquare API to details related to the neighborhoods.