The Battle of Neighborhoods

This report is the part of capstone project of IBM DATA SCIENCE CERTIFICATE. The main aim of this project is to apply every skill and tools learned from this course and apply for solving a business problem where we can use the Foursquare location data.

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**1. Business Problem**

The largest city of Canada Toronto is one of the most multicultural cities in the world, making life in Toronto a wonderful multicultural experience for all. Mostly Immigrants are living in canda so they have given different cuisine, religious place, ethnic stores every one gives the hints of there culture. The aim of this project is to find the best neighborhood in Toronto to open a restaurant using foursquare location data. In this project we’ll go through the solution for this problem for avoiding or considering low risk criteria and high success rate.

**2. Target Audience**

* People who wants to eat Indian food
* Business professional who wants to invest or open a restaurant.

**3. Data Description**

**1. Toronto City data that contains Borough, Neighborhoods along with there latitudes and longitudes**

**Data Source**: <https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M>

**Description:** This Wikipedia page contains all the information we need to explore and cluster the neighborhoods in Toronto. We will be required to scrape the Wikipedia page and wrangle the data, clean it, and then read it into a pandas data frame so that it is in a structured format like the Toronto dataset.

**2. Geographical Location data using Geocoder Package**

**Data Source:** <https://cocl.us/Geospatial_data>

**Description:** It is the Geographical coordinates of the neighborhoods with the respective Postal Codes.

**3. Venue Data using Foursquare API**

**Data Source:** <https://foursquare.com/developers/apps>

**Description:**From Foursquare API we can get the name,category,latitude,longitude for each venue.

