

# Capstone Project- The Battle of Neighborhoods: Restaurants in Toronto

This document is prepared as a partial requirement to complete Coursera's [IBM Data Science Professional Certificate](#) program.

## 1. Introduction

In line with the recent trends of globalization and global awareness, one of the qualities of major cities of the world is their suitability for expats and visiting foreigners. One of the ways that a city's suitability can be measured is the diversity of its restaurants. Hence, the problem we will try to address here is the availability and distribution of restaurants serving foreign foods in Toronto, Canada. We will be using location data from Foursquare to give insight to people considering to visit or relocate to Toronto as to how they should choose neighborhoods.

## 2. Data

For this project, we need the following data:

1. Toronto data that contains list of neighborhoods

Data source:

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

Description:

We will Scrape Toronto neighborhoods along with their postal codes from Table on the Wikipedia page

2. Geographical data containing latitude and longitude of postal codes

Data source:

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

Description:

We will read the csv data and import the longitude and latitude corresponding to the postal codes.

3. Restaurants in each neighborhood of Toronto:

Data source:

Foursquare API calls

Description:

By using this API we will get all the venues in each neighborhood. We can filter these venues to get only restaurants.