## Coursera Capstone – The battle of Neighborhoods

Mediterranean Restaurant in Toronto

## Problem Background

This project is a hypothesis for an entrepreneur who would like to open a new business (a Mediterranean restaurant) in the capital city of Canada, Toronto, and would like to search for a suitable neighborhood for such kind of restaurant.

This entrepreneur would like to avoid strong competition as he/she is new to the business by targeting a neighborhood with no or little number of Mediterranean restaurants!

## **Problem Description**

The objective of this capstone project is to use both location-based API like Foursquare API, Data Science methods and Machine Learning Algorithms to help a new entrepreneur in finding an appropriate neighborhood with no or little Mediterranean restaurants to open a new Mediterranean restaurant. This project aims to answer the following question: If a new entrepreneur would like to open a new Mediterranean restaurant in Toronto and avoid strong competition with other restaurants of the same type, in which neighborhood he/she should consider opening it?

## **Data Description**

This project requires exploring, segmenting and clustering neighborhoods of Toronto city.

Two main data sources were used in this project:

- Scrapping the following Wikipedia page to get needed information about different neighborhoods of Toronto: <a href="https://en.wikipedia.org/wiki/List\_of\_postal\_codes\_of\_Canada:\_M">https://en.wikipedia.org/wiki/List\_of\_postal\_codes\_of\_Canada:\_M</a>
  This Wikipedia page provides an html table with the list of postal codes along with boroughs and neighborhoods of Toronto city.
- 2. Foursquare API to get more info about venues of each neighborhood in Toronto such as name, location and categories