

## Introduction

The Lawrence Park neighborhood have around Toronto French School and York University, that it implies a lot of people around is a good idea businesses related to the educational part.

Taking into account the power that this region has, a businessman desire to place a business aimed at young people but he does not know what type of business to place.

This man hires a specialist to help with this problem.

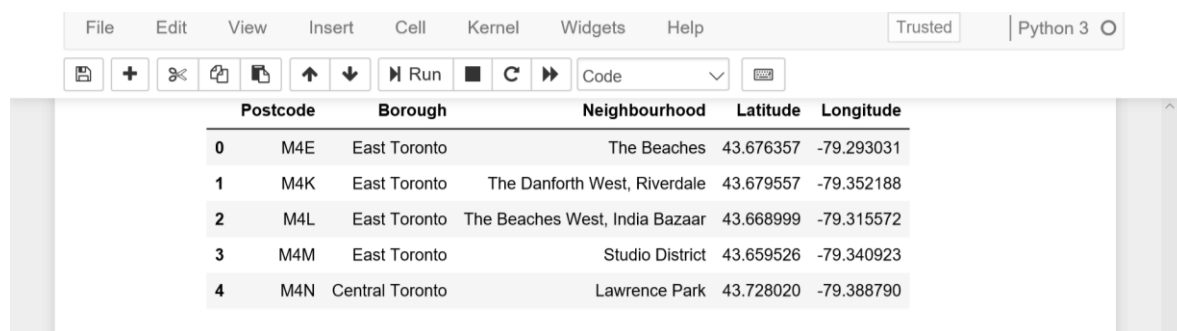
## Problem Description

A businessman desire to place a business aimed at young people, in the Central Toronto Borough in the Lawrence Park neighborhood wants to analyze the businesses around and decide what type of business to place.

## Data

Using geo-location for the Central Toronto Borough in the Lawrence Park neighborhood and request from the Page Foursquare we will find the businesses around Lawrence Park neighborhood. Look the table and map below.

With the api of Foursquare take the radius 1500, that mean find veneaus around of 1500 meter, we will analyze, sort and classify working with k-means clustering technique of Machine Learning. After reviewing the results we will take a business decision.



The image shows a Jupyter Notebook interface with a table of data. The table has five columns: Index, Postcode, Borough, Neighbourhood, Latitude, and Longitude. It contains five rows of data for different locations in the Lawrence Park neighborhood.

|   | Postcode | Borough         | Neighbourhood                  | Latitude  | Longitude  |
|---|----------|-----------------|--------------------------------|-----------|------------|
| 0 | M4E      | East Toronto    | The Beaches                    | 43.676357 | -79.293031 |
| 1 | M4K      | East Toronto    | The Danforth West, Riverdale   | 43.679557 | -79.352188 |
| 2 | M4L      | East Toronto    | The Beaches West, India Bazaar | 43.668999 | -79.315572 |
| 3 | M4M      | East Toronto    | Studio District                | 43.659526 | -79.340923 |
| 4 | M4N      | Central Toronto | Lawrence Park                  | 43.728020 | -79.388790 |

