

## Problem Description

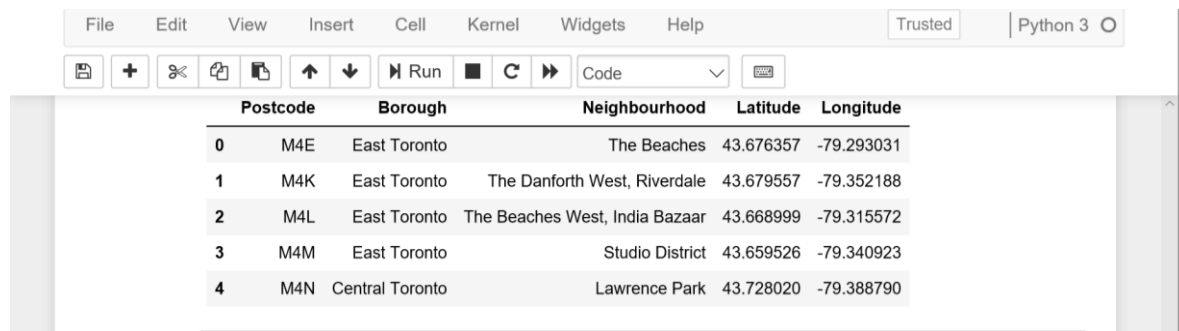
A person desire to place a business aimed at young people, in the Central Toronto Borough in the Lawrence Park neighborhood wants to analyze the businesses around and decide what type of business to place.

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

## 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 location data. The table has five columns: Index, Postcode, Borough, Neighbourhood, Latitude, and Longitude. It contains five rows of data, indexed 0 to 4. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar indicating 'Trusted' and 'Python 3'.

|   | 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 |

