

# Capstone Project – Best neighbourhood in Toronto for a migrant

## Introduction

Last decade has seen an increase of migrants to Canada so becoming increasingly difficult the choice of buying a house in the country especially in big city as Toronto.

The migrants search both for a good housing prices and good rating schools for their children.

The aim of the project is to analyse several features for a neighbourhood such as school ratings, crime rates, median house prices, and compare them analysing with other neighbourhoods.

This study could support people to get knowledge about new places before moving to new country for working and life reasons.

The criteria selected to define a “good” neighbourhood, which is one with a tangible commercial presence inside a given community, are:

1. Compare median housing prices;
2. Compare school ratings.

The neighbourhood chose for the project is Scarborough in the Greater Toronto Area. Scarborough appears to be one of most popular destination to reside for new migrants in Canada, being a multicultural area and home of several religious groups.

The data of the project have been supported by **Foursquare** which is the most trusted, independent location data platform for understanding how people move through the real world. Especially their places API which provides the ability to perform location search, location sharing and details about a business.

Due to “*http*” request limitations the number of places per neighbourhood parameter would reasonably be set to 100 and the radius parameter would be set to 500.

As clustering approach, to compare the affinities of two cities, we choose to explore, segment and group neighbourhoods into clusters to find comparable neighbourhoods in important cities ad New York and Toronto. At this stage “*k-means clustering algorithm*” has been used.