Capstone Project – Best neighbourhood in Toronto for a migrant

Data

We need geo-locational information about that specific district and the neighbourhoods in that district. The borough analysed is "Scarborough" in Toronto.

This project require information of distinct neighbourhoods in Toronto, school ratings and median house prices. The data required are:

1. Neighbourhood location in terms of latitude and longitude;

2. School Ratings;

3. Median House Prices.

Dataset comprising latitude and longitude, zip codes is already available through the previous notebook. The location of Scarborough would be filtered using the same:

https://github.com/DDK79/Coursera_Capstone/blob/master/Segmenting%20and%20Clustering%20Neighborhoods%20in%20Toronto%20-%20Sections%201%2C2%2C3.ipynb

	Postalcode	Borough	Neighborhood
0	M1B	Scarborough	Malvern, Rouge
1	M1C	Scarborough	Rouge Hill, Port Union, Highland Creek
2	M1E	Scarborough	Guildwood, Morningside, West Hill
3	M1G	Scarborough	Woburn
4	M1H	Scarborough	Cedarbrae

Furthermore, we need data about several venues in different neighbourhoods of that specific borough. In order to get that information we use "*Foursquare*" locational information. Foursquare 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, venue names, details about a business, menus and photos.

Foursquare platform is the sole data source used because all information required can be acquired by its API. After finding the list of neighbourhoods, we then connect to the Foursquare API to gather information about venues within each neighbourhood. The radius of 100 metres has been chosen for each neighbourhood.

The data recovered from Foursquare has included information of venues within a specified distance of the longitude and latitude of the postcodes. The information obtained per venue as follows:

1. Neighbourhood;

2. Neighbourhood Latitude;

3. Neighbourhood Longitude;

4. Venue;

5. Name of the venue e.g. the name of a store or restaurant;

6. Venue Latitude;

7. Venue Longitude;

8. Venue Category;