Final Project (Applied Data Science Capstone)

Battle of Neighborhoods

Examining median house prices in Scarborough, Canada

The location: Being a very popular destination, Scarborough is place of choice among immigrants. It is home to many religious affinities and many places of worship. It also includes a number of natural landmarks.

Problem description: Each year many people migrate various states of Canada, and usually a new immigrant is faced with the problem of searching for a new dwelling and with reasonable prices. If the immigrant is accompanied by the family, naturally they would want to look for the best possible schools in the neighborhood in addition to searching for recreational and trending areas in the neighborhood. The project aims to develop easiness for the new mover by creating an analysis of features for a neighborhood as a comparative analysis between neighborhoods. It would help people make an informed decision before moving to a new country, state, city.

The project aims to facilitate the choice of neighborhood in Scarborough out of many neighborhoods based on the examination of various facilities available in and around the area.

Data: The project will use location data provided by Foursquare API, more specifically the places API which grants the user the ability to perform location search, location sharing and provides details about businesses.

I will subset the data from previous week (Week 2) to make it Scarborough specific, and all the neighborhoods within Scarborough with all the location (Latitude and Longitude)

coordinates. A snippet of the data is provided below

	Postalcode	Borough	Neighborhood	Latitude	Longitude
0	M1B	Scarborough	Rouge, Malvern	43.811525	-79.195517
1	M1C	Scarborough	Highland Creek, Rouge Hill, Port Union	43.785665	-79.158725
2	M1E	Scarborough	Guildwood, Morningside, West Hill	43.765815	-79.175193
3	M1G	Scarborough	Woburn	43.768369	-79.217590
4	M1H	Scarborough	Cedarbrae	43.769688	-79.239440
5	M1J	Scarborough	Scarborough Village	43.743125	-79.231750
6	M1K	Scarborough	East Birchmount Park, Ionview, Kennedy Park	43.726276	-79.263625
7	M1L	Scarborough	Clairlea, Golden Mile, Oakridge	43.713054	-79.285055
8	M1M	Scarborough	Cliffcrest, Cliffside, Scarborough Village West	43.724235	-79.227925
9	M1N	Scarborough	Birch Cliff, Cliffside West	43.696770	-79.259967
10	M1P	Scarborough	Dorset Park, Scarborough Town Centre, Wexford ...	43.759975	-79.268974
11	M1R	Scarborough	Maryvale, Wexford	43.750710	-79.300560
12	M1S	Scarborough	Agincourt	43.793940	-79.267976
13	M1T	Scarborough	Clarks Corners, Sullivan, Tam O'Shanter	43.784725	-79.299066
14	M1V	Scarborough	Agincourt North, L'Amoreaux East, Milliken, St...	43.817685	-79.280187
15	M1W	Scarborough	L'Amoreaux West	43.800883	-79.320740
16	M1X	Scarborough	Upper Rouge	43.834215	-79.216701