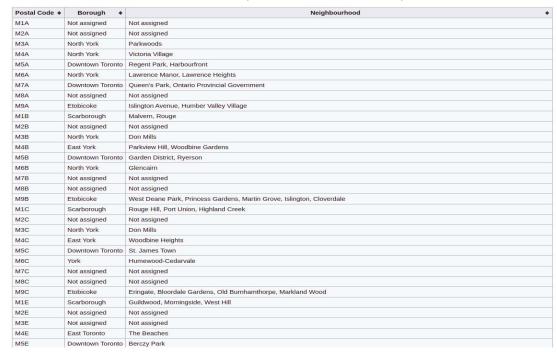# Applied Data Science Capstone

Final Project
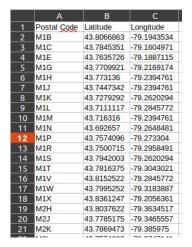
Find the best place to open a new brazilian restaurant in Toronto, Canada

Data

- A list of neighborhoods in Toronto, Canada: the information source is the wikipedia web site https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M and the data will be extracted from the table present on this site. Example:

Postal Code ⬦	Borough ⬦	Neighbourhood ⬦
M1A	Not assigned	Not assigned
M2A	Not assigned	Not assigned
M3A	North York	Parkwoods
M4A	North York	Victoria Village
M5A	Downtown Toronto	Regent Park, Harbourfront
M6A	North York	Lawrence Manor, Lawrence Heights
M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government
M8A	Not assigned	Not assigned
M9A	Etobicoke	Islington Avenue, Humber Valley Village
M1B	Scarborough	Malvern, Rouge
M2B	Not assigned	Not assigned
M3B	North York	Don Mills
M4B	East York	Parkview Hill, Woodbine Gardens
M5B	Downtown Toronto	Garden District, Ryerson
M6B	North York	Glencairn
M7B	Not assigned	Not assigned
M8B	Not assigned	Not assigned
M9B	Etobicoke	West Deane Park, Princess Gardens, Martin Grove, Islington, Cloverdale
M1C	Scarborough	Rouge Hill, Port Union, Highland Creek
M2C	Not assigned	Not assigned
M3C	North York	Don Mills
M4C	East York	Woodbine Heights
M5C	Downtown Toronto	St. James Town
M6C	York	Humewood-Cedarvale
M7C	Not assigned	Not assigned
M8C	Not assigned	Not assigned
M9C	Etobicoke	Eringate, Bloordale Gardens, Old Burnhamthorpe, Markland Wood
M1E	Scarborough	Guildwood, Morningside, West Hill
M2E	Not assigned	Not assigned
M3E	Not assigned	Not assigned
M4E	East Toronto	The Beaches
M5E	Downtown Toronto	Berczy Park

- The geoespatial coordinates of these neighborhoods: the coordinates were obtained from the 'Geospatial_Coordinates.csv' file, provided by the course. Example:

	A	B	C
1	Postal Code	Latitude	Longitude
2	M1B	43.8066863	-79.1943534
3	M1C	43.7845351	-79.1604971
4	M1E	43.7635726	-79.1887115
5	M1G	43.7709921	-79.2169174
6	M1H	43.773136	-79.2394761
7	M1J	43.7447342	-79.2394761
8	M1K	43.7279292	-79.2620294
9	M1L	43.7111117	-79.2845772
10	M1M	43.716316	-79.2394761
11	M1N	43.692657	-79.2648481
12	M1P	43.7574096	-79.273304
13	M1R	43.7500715	-79.2958491
14	M1S	43.7942003	-79.2620294
15	M1T	43.7816375	-79.3043021
16	M1V	43.8152522	-79.2845772
17	M1W	43.7995252	-79.3183887
18	M1X	43.8361247	-79.2056361
19	M2H	43.8037622	-79.3634517
20	M2J	43.7785175	-79.3465557
21	M2K	43.7869473	-79.385975

- Venue data from Foursquare of these neighborhoods: The data was obtained using the Foursquare API to find out where the italian restaurants are located in Toronto.
  Example:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Parkwoods	43.753259	-79.329656	Brookbanks Park	43.751976	-79.332140	Park
1	Parkwoods	43.753259	-79.329656	649 Variety	43.754513	-79.331942	Convenience Store
2	Parkwoods	43.753259	-79.329656	Variety Store	43.751974	-79.333114	Food & Drink Shop
3	Victoria Village	43.725882	-79.315572	Victoria Village Arena	43.723481	-79.315635	Hockey Arena
4	Victoria Village	43.725882	-79.315572	Tim Hortons	43.725517	-79.313103	Coffee Shop