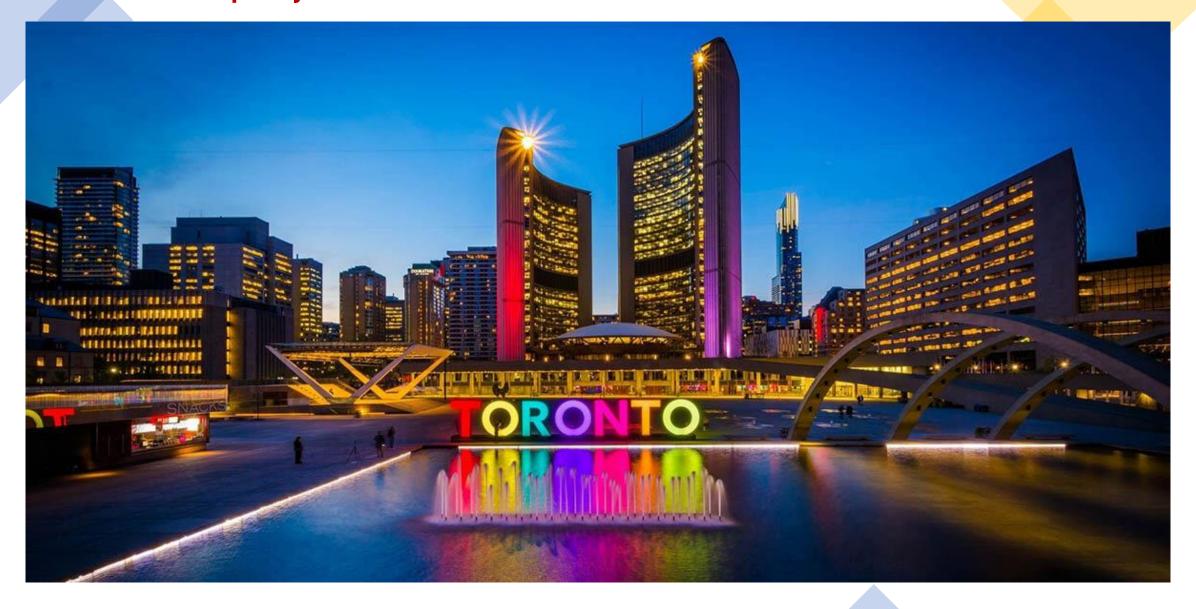
COURSERA CAPSTONE FINAL PROJECT

Battle for the neighborhood Toronto, Canada

A Chinese company want to establish a branch office in Toronto Downtown



Data Source

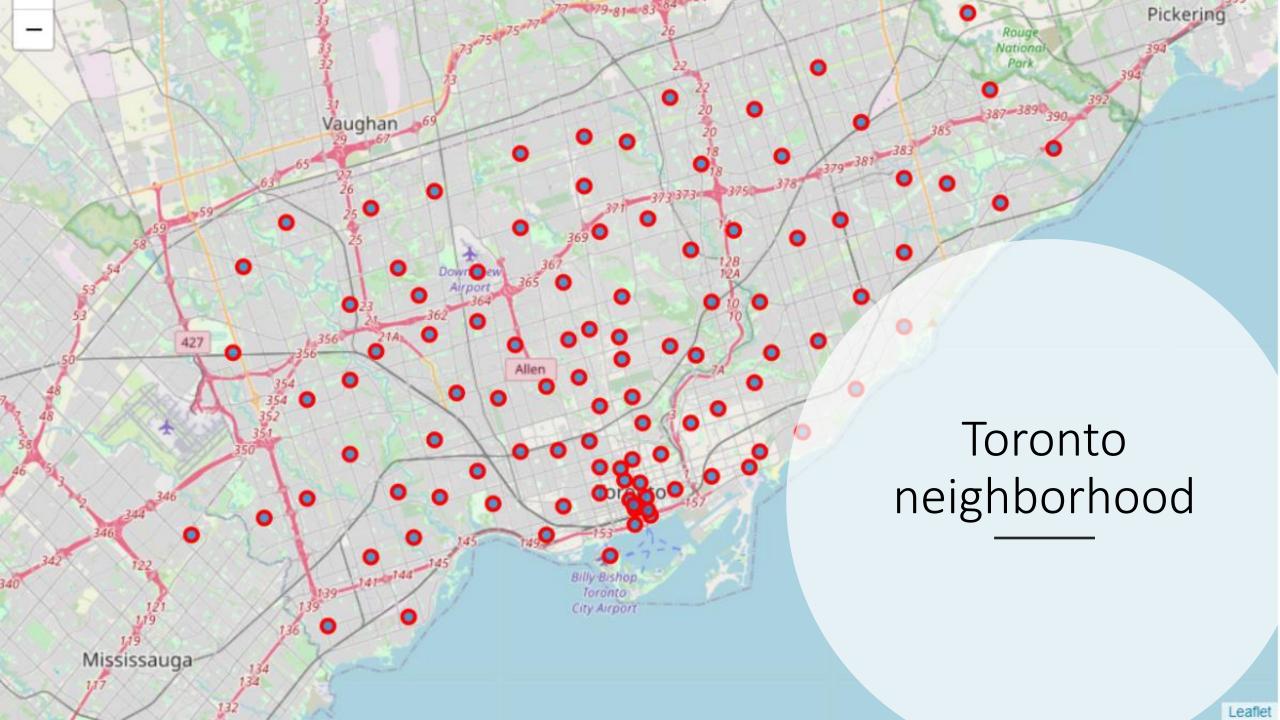
Toronto Neighborhoods –

https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

Toronto Latitude and Longitude - http://cocl.us/Geospatial_data

Adding Geographical information to the data

	PostalCode	Borough	Neighborhood	Latitude	Longitude
0	M1B	Scarborough	Malvern, Rouge	43.806686	-79.194353
1	M1C	Scarborough	Rouge Hill, Port Union, Highland Creek	43.784535	-79.160497
2	M1E	Scarborough	Guildwood, Morningside, West Hill	43.763573	-79.188711
3	M1G	Scarborough	Woburn	43.770992	-79.216917
4	M1H	Scarborough	Cedarbrae	43.773136	-79.239476



Segmenting Downtown Toronto Borough



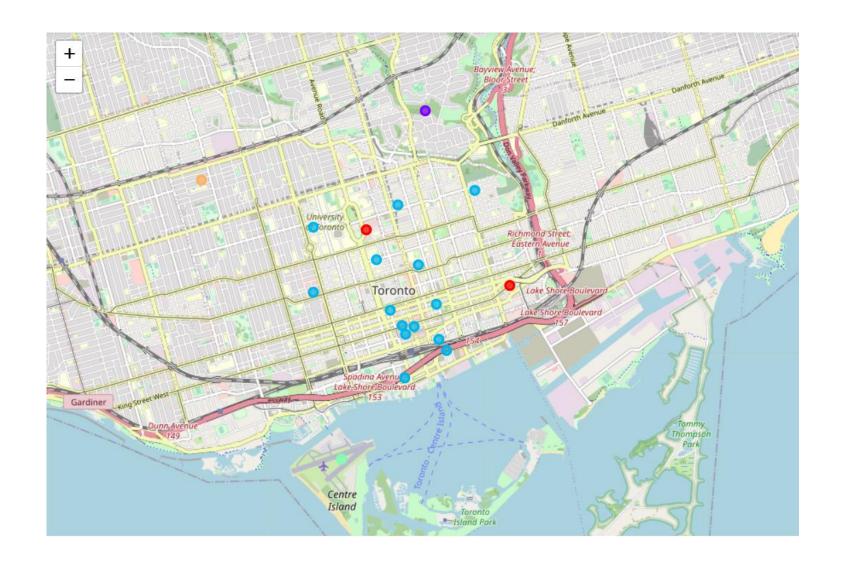
	PostalCode	Borough	Neighborhood	Latitude	Longitude
0	M4W	Downtown Toronto	Rosedale	43.679563	-79.377529
1	M4X	Downtown Toronto	St. James Town, Cabbagetown	43.667967	-79.367675
2	M4Y	Downtown Toronto	Church and Wellesley	43.665860	-79.383160
3	M5A	Downtown Toronto	Regent Park, Harbourfront	43.654260	-79.360636
4	M5B	Downtown Toronto	Garden District, Ryerson	43.657162	-79.378937

Adding Geographical information to the Downtown Toronto Neighborhood Venues

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Rosedale	43.679563	-79.377529	Rosedale Park	43.682328	-79.378934	Playground
1	Rosedale	43.679563	-79.377529	Whitney Park	43.682036	-79.373788	Park
2	Rosedale	43.679563	-79.377529	Rosedale Tennis Club	43.683226	-79.378984	Tennis Court
3	Rosedale	43.679563	-79.377529	Alex Murray Parkette	43.678300	-79.382773	Park
4	Rosedale	43.679563	-79.377529	Milkman's Lane	43.676352	-79.373842	Trail

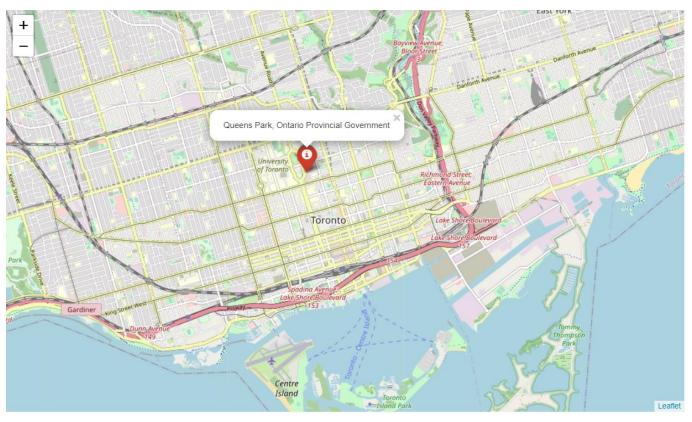
Checking the top 10 venues of each Neighborhood

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Berczy Park	Coffee Shop	Bakery	Cocktail Bar	Seafood Restaurant	Cheese Shop	Beer Bar	Farmers Market	Restaurant	Sandwich Place	Breakfast Spot
1	CN Tower, King and Spadina, Railway Lands, Har	Airport Lounge	Airport Service	Bar	Harbor / Marina	Rental Car Location	Coffee Shop	Boat or Ferry	Historic Site	Sculpture Garden	Airport Terminal
2	Central Bay Street	Coffee Shop	Café	Italian Restaurant	Sandwich Place	Japanese Restaurant	Thai Restaurant	Department Store	Salad Place	Burger Joint	Bubble Tea Shop
3	Christie	Grocery Store	Café	Park	Athletics & Sports	Baby Store	Coffee Shop	Nightclub	Candy Store	Italian Restaurant	Restaurant
4	Church and Wellesley	Coffee Shop	Gay Bar	Japanese Restaurant	Sushi Restaurant	Restaurant	Yoga Studio	Hotel	Men's Store	Café	Bubble Tea



Clustering the Neighborhood

Selecting the Neighborhood



	Neighborhood	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
	St. James Town, Cabbagetown	43.667967	-79.367675	2	Coffee Shop	Café	Pizza Place	Restaurant	Pub	Chinese Restaurant	Market	Bakery	Park	Italian Restaurant
	Queen's Park, Ontario Provincial Government	43.662301	-79.389494	0	Coffee Shop	Yoga Studio	Chinese Restaurant	Sandwich Place	Diner	Music Venue	Beer Bar	Italian Restaurant	Smoothie Shop	Portuguese Restaurant

THANK YOU