

BATTLE OF NEIGHBORHOODS- TORONTO

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INTRODUCTION

- Toronto is the capital of Ontario and is the most populous city in Canada. Toronto is the most ethnically diverse city in Canada thereby it has unique food culture. Toronto's landscape is distinctly different than the rest of the country. There are various restaurants of local cuisine and many restaurants of various international cuisines such as Italian, Indian, Chinese, Mexican, Thai etc. So we can say Toronto is the best place for foodies.

PROBLEM DESCRIPTION

- ◉ Let's say I travel to different places in Toronto and it is very difficult to me to identify the best restaurants in that area. In these situations, we need to find the right place to eat with reasonable cost. So the possible analysis can be done on these:
 - ◉ 1. Which is the most nearest restaurant?
 - ◉ 2. Which is the most visited restaurant?
 - ◉ 3. What is the most famous cuisine in that area?
- ◉ So in this project I will be analyzing the Toronto data to find the solutions of the above problem statements.

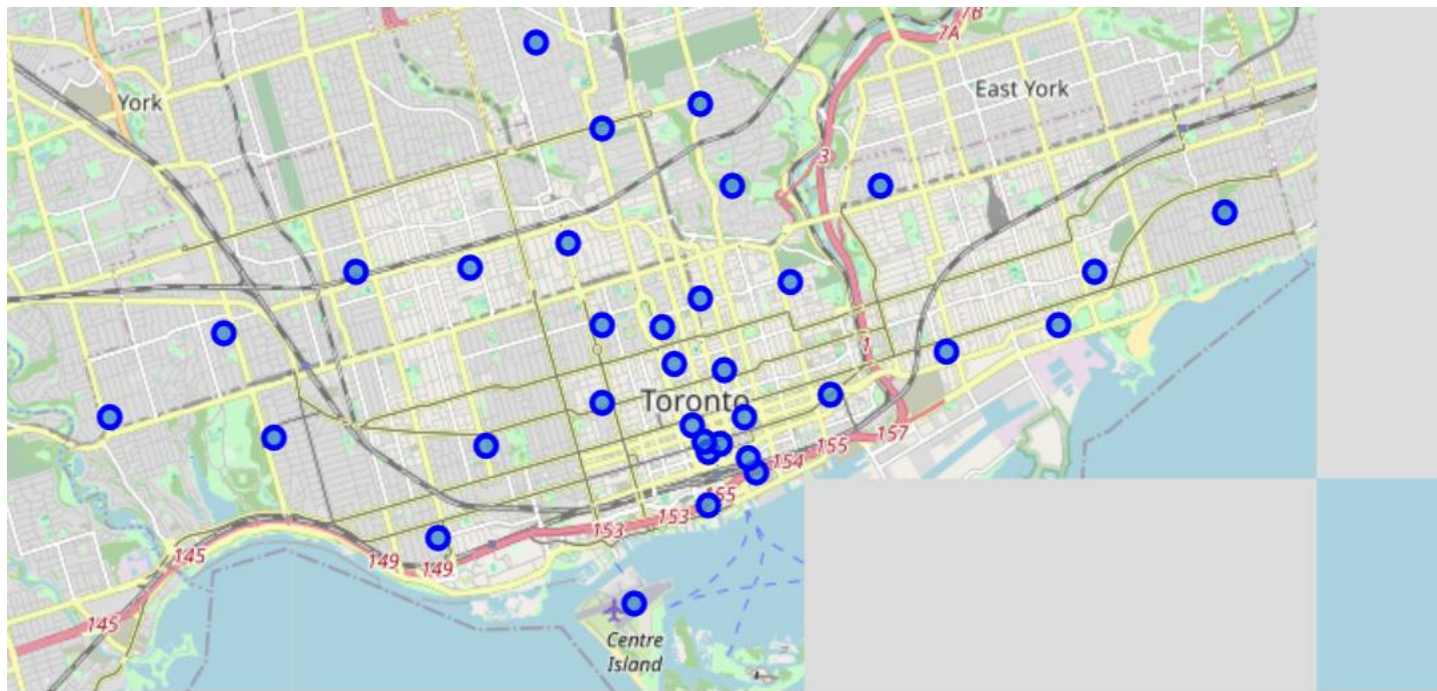
DATA

- ◉ *Data acquisition:*
- ◉ We can collect the data from https://geo.nyu.edu/catalog/nyu_2451_34572 We can get the location such as longitude and latitude co-ordinates of the restaurants by using “geopy library”.

	Postal Code	Borough	Neighborhood	Latitude	Longitude
0	M3A	North York	Parkwoods	43.753259	-79.329656
1	M4A	North York	Victoria Village	43.725882	-79.315572
2	M5A	Downtown Toronto	Regent Park, Harbourfront	43.654260	-79.360636
3	M6A	North York	Lawrence Manor, Lawrence Heights	43.718518	-79.464763
4	M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government	43.662301	-79.389494
5	M9A	Etobicoke	Islington Avenue	43.667856	-79.532242
6	M1B	Scarborough	Malvern, Rouge	43.806686	-79.194353
7	M3B	North York	Don Mills	43.745906	-79.352188
8	M4B	East York	Parkview Hill, Woodbine Gardens	43.706397	-79.309937
9	M5B	Downtown Toronto	Garden District, Ryerson	43.657162	-79.378937
10	M6B	North York	Glencairn	43.709577	-79.445073
11	M9B	Etobicoke	West Deane Park, Princess Gardens, Martin Grov...	43.650943	-79.554724
12	M1C	Scarborough	Rouge Hill, Port Union, Highland Creek	43.784535	-79.160497
13	M3C	North York	Don Mills	43.725900	-79.340923

METHODOLOGY

- Now using Folium the data in the dataframe can be visualized



RESULT

- By using Foursquare we can fetch the list of venues in each cluster.
- The list of most common venues in the cluster 0 are as follows:

	Borough	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
0	Downtown Toronto	0	Coffee Shop	Bakery	Pub	Park	Breakfast Spot	Restaurant	Café	Theater	Yoga Studio	Mexican Restaurant
1	Downtown Toronto	0	Coffee Shop	Sushi Restaurant	Gym	Diner	Park	Mexican Restaurant	Japanese Restaurant	Italian Restaurant	Hobby Shop	Wings Joint
2	Downtown Toronto	0	Clothing Store	Coffee Shop	Middle Eastern Restaurant	Restaurant	Bubble Tea Shop	Café	Japanese Restaurant	Italian Restaurant	Cosmetics Shop	Bookstore
3	Downtown Toronto	0	Coffee Shop	Café	Cocktail Bar	Gastropub	American Restaurant	Gym	Beer Bar	Italian Restaurant	Lingerie Store	Department Store
5	Downtown Toronto	0	Coffee Shop	Cocktail Bar	Bakery	Cheese Shop	Café	Restaurant	Beer Bar	Seafood Restaurant	French Restaurant	Pub

CONCLUSION

- ◉ Since we are more interested in finding a restaurant, the most visited in Downtown Toronto is Sushi Restaurant. So the most famous cuisine in that area is “Japanese”.
- ◉ The nearest venue in that area are coffee shops