1. Introduction

There are many different kinds of restaurants and catering services. Whether you are interested in starting a café, a bar, family-style restaurant or event catering business, you will be part of the food services industry. For a restaurant, location is very important. Since location will decide how many potential customers will be and what price they will pay. We will use Foursquare data to find these two things. In Foursquare Places API, we can Get Details of a Venue. Here we try to find the best venue location in Toronto to open a restaurant The result may be useful for people to open their own restaurant, or may lend some thoughts to other business location finding.

2. DATA

- For the Toronto neighborhood data, a Wikipedia page exists that has all the information we need to explore and cluster the neighborhoods in Toronto.

Toronto - FSAs [edit]

Note: There are no rural FSAs in Toronto, hence no postal codes start with M0.

Postcode ⬍	Borough ⬍	Neighbourhood ⬍
M1A	Not assigned	Not assigned
M2A	Not assigned	Not assigned
M3A	North York	Parkwoods
M4A	North York	Victoria Village
M5A	Downtown Toronto	Harbourfront
M5A	Downtown Toronto	Regent Park
M6A	North York	Lawrence Heights
M6A	North York	Lawrence Manor
M7A	Queen's Park	Not assigned
M8A	Not assigned	Not assigned
M9A	Etobicoke	Islington Avenue
M1B	Scarborough	Rouge
M1B	Scarborough	Malvern
M2B	Not assigned	Not assigned
M3B	North York	Don Mills North
M4B	East York	Woodbine Gardens
M4B	East York	Parkview Hill
M5B	Downtown Toronto	Ryerson
M5B	Downtown Toronto	Garden District
M6B	North York	Glencairn

3 . METHODOLOGY

- Use the Notebook to build the code to scrape the following Wikipedia page, https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M, in order to obtain the data that is in the table of postal codes and to transform the data into a *pandas* dataframe

- Get The latitude and the longitude coordinates of each neighborhood.

- Explore the neighborhoods in Toronto.

- Using a radius of 5km to identify for nearby venues

- Identifying the top 10 venue by Borough (i.e. Postcode)

4 . RESULTS

- Identifying the top 10 venue by Borough (i.e. Postcode)

	Postcode	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	M1B	Coffee Shop	Zoo Exhibit	Sandwich Place	Pharmacy	Fast Food Restaurant	Pizza Place	Park	Breakfast Spot	Fried Chicken Joint	Burger Joint
1	M1C	Zoo Exhibit	Coffee Shop	Park	Breakfast Spot	Pizza Place	Sandwich Place	Fast Food Restaurant	Beer Store	Smoothie Shop	Zoo
2	M1E	Coffee Shop	Park	Sandwich Place	Bank	Pharmacy	Indian Restaurant	Beer Store	Pizza Place	Fast Food Restaurant	Gym
3	M1G	Coffee Shop	Fast Food Restaurant	Sandwich Place	Park	Pharmacy	Pizza Place	Caribbean Restaurant	Breakfast Spot	Burger Joint	Indian Restaurant
4	M1H	Coffee Shop	Fast Food Restaurant	Chinese Restaurant	Indian Restaurant	Sandwich Place	Caribbean Restaurant	Pharmacy	Pizza Place	Gym	Burger Joint

5. DilSCUSSION

• Coordinate(latitude/longitude) are very important. Some borough/neighborhood are close, some are far. Map will make more under stand and clear.

• When get request venues from foursquare, alway need to send latitude and longitude to explore venues of destination.

• In case of lack of coordinates, geocoder library can find lat./long. by use only name of destination.

• Completely and correctly of data from Foursquare is effect to quality of project directly.

• This project can help reduce time to find suitable location and make decision base on real data.

• No only restaurants, we can change business, city, borough and neighborhood by this concept.

6 . Conclusion

Although, there are a lot of restaurants in Toronto, this project can help to find space and recommend the potential by ranking. It help to reduce process time and cost of business. It make advantage for business competition and can applied to other business.