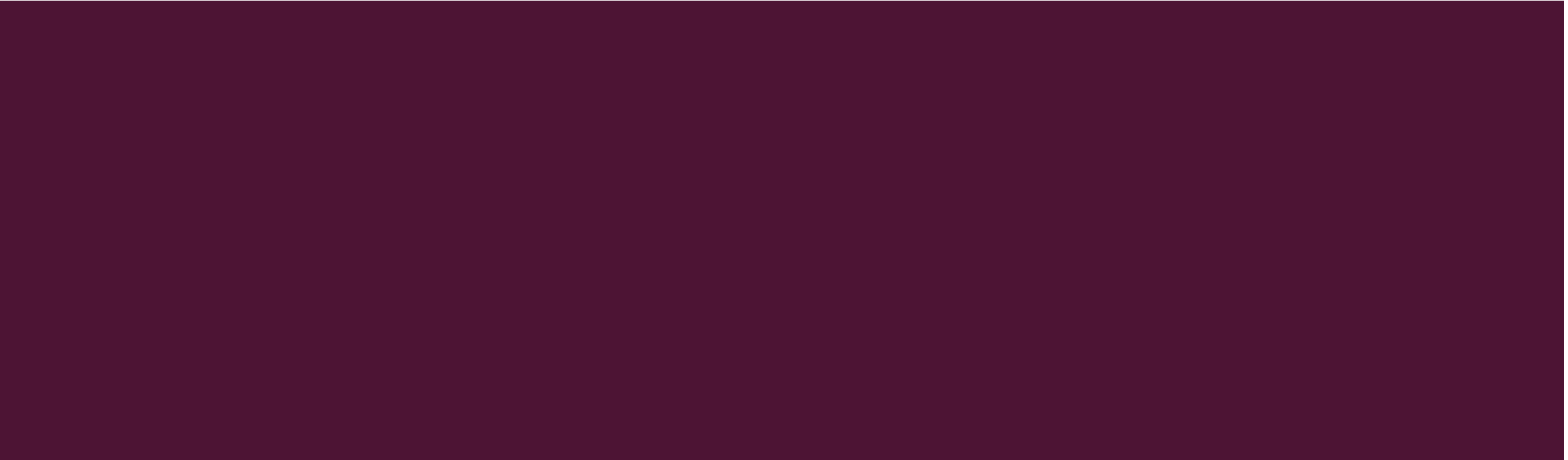

CAPSTONE PROJECT

THE BATTLE OF NEIGHBORHOODS



INTRODUCTION/BUSINESS PROBLEM

- Information about Vietnamese restaurants in Toronto, Canada.
- Toronto is the most multiculturally diverse city on the planet: over 140 languages are spoken.
- Toronto's motto is "Diversity Our Strength"; hence, Toronto provides wide range of cultures, languages, and especially food items.
- There are numerous restaurants in Toronto with many world cooking styles represented from China, Japan, India, etc, which reflects Toronto's cosmopolitan atmosphere.
- Since the city has over 240 distinct neighborhoods within its boundaries, I will list and visualize all major parts of Toronto that has great Vietnamese restaurants.
- This report will be a reference for any people want to enjoy Vietnamese cuisine regularly or people who looks for a neighborhood with good Vietnamese restaurants to live.



DATA DESCRIPTION

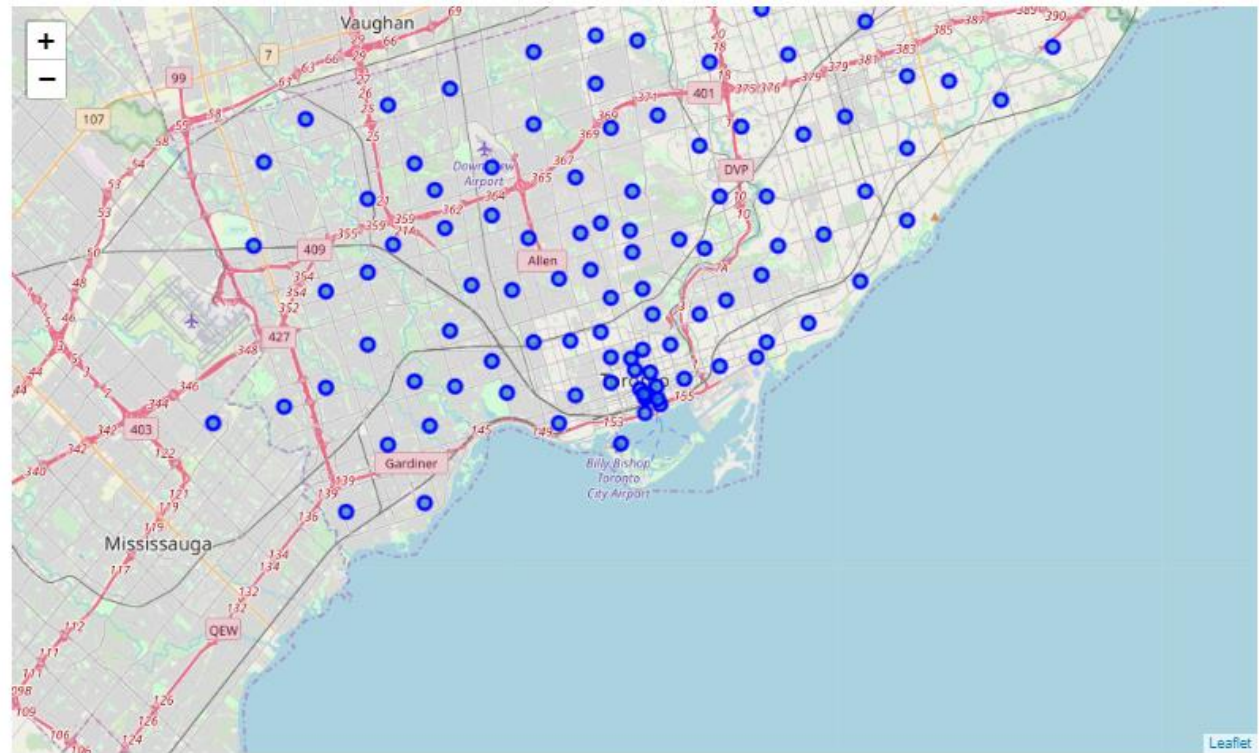
- Toronto data that contains list Boroughs, Neighborhoods along with their latitude and longitude. https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M, Fousquare API
- Vietnamese restaurants in Toronto. Fousquare API
- GeoSpace data
- City of Toronto Neighborhood Shapes for mapping : GeoJSON File

DATA METHODOLOGY

- Collect the Toronto information about neighbourhood and boroughs.
- Using FourSquare API finds all venues for each neighborhood.
- Filter out all venues that are Vietnamese Restaurants.
- Find rating , tips and like count for each Vietnamese Restaurant using FourSquare API. With average rating for each neighbourhood, I will sort and visualize the ranking of neighborhoods.

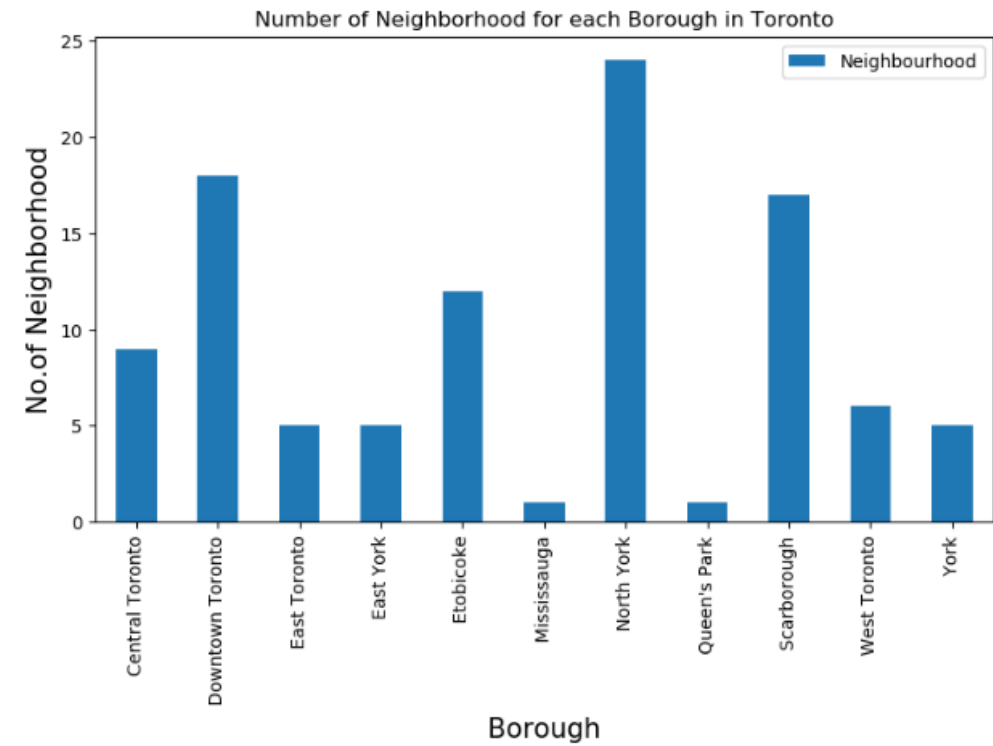
RESULT

- Overview of Toronto Neighbourhood using Folium Map



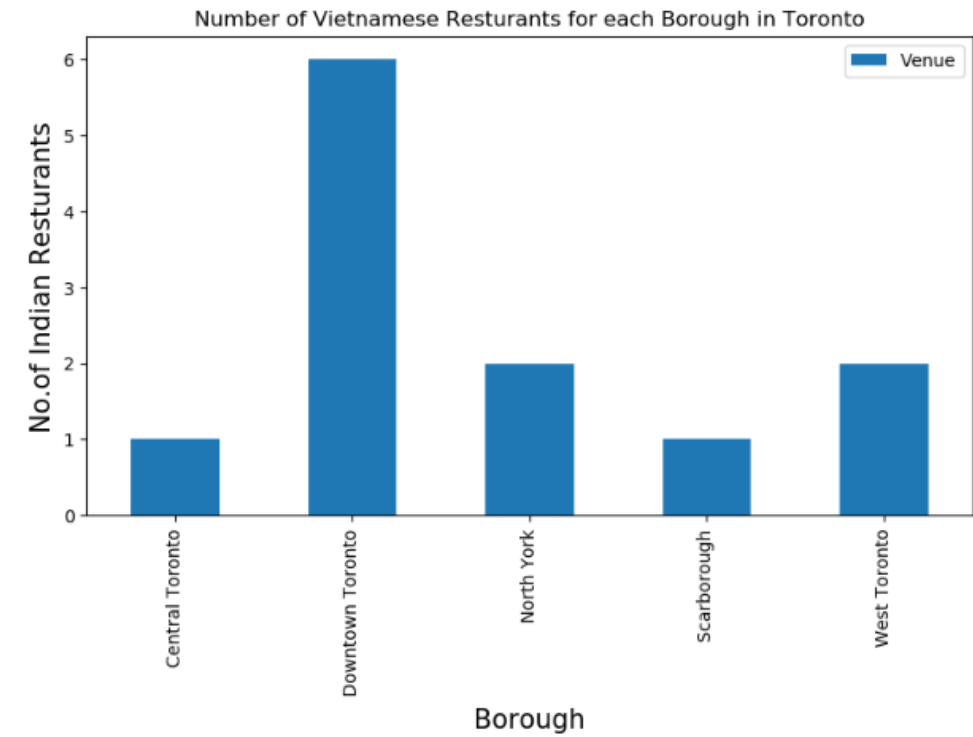
RESULTS

- North York has highest number of neighbourhoods.



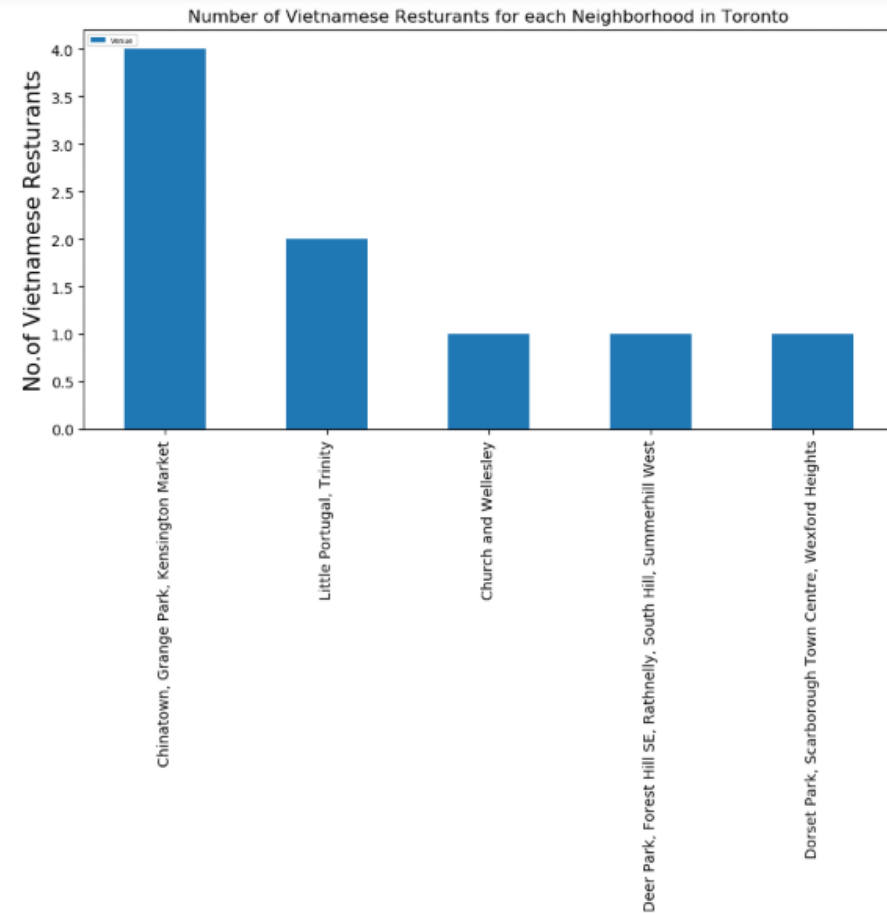
RESULTS

- Downtown Toronto has the highest number of Vietnamese Restaurants with 6 restaurants..



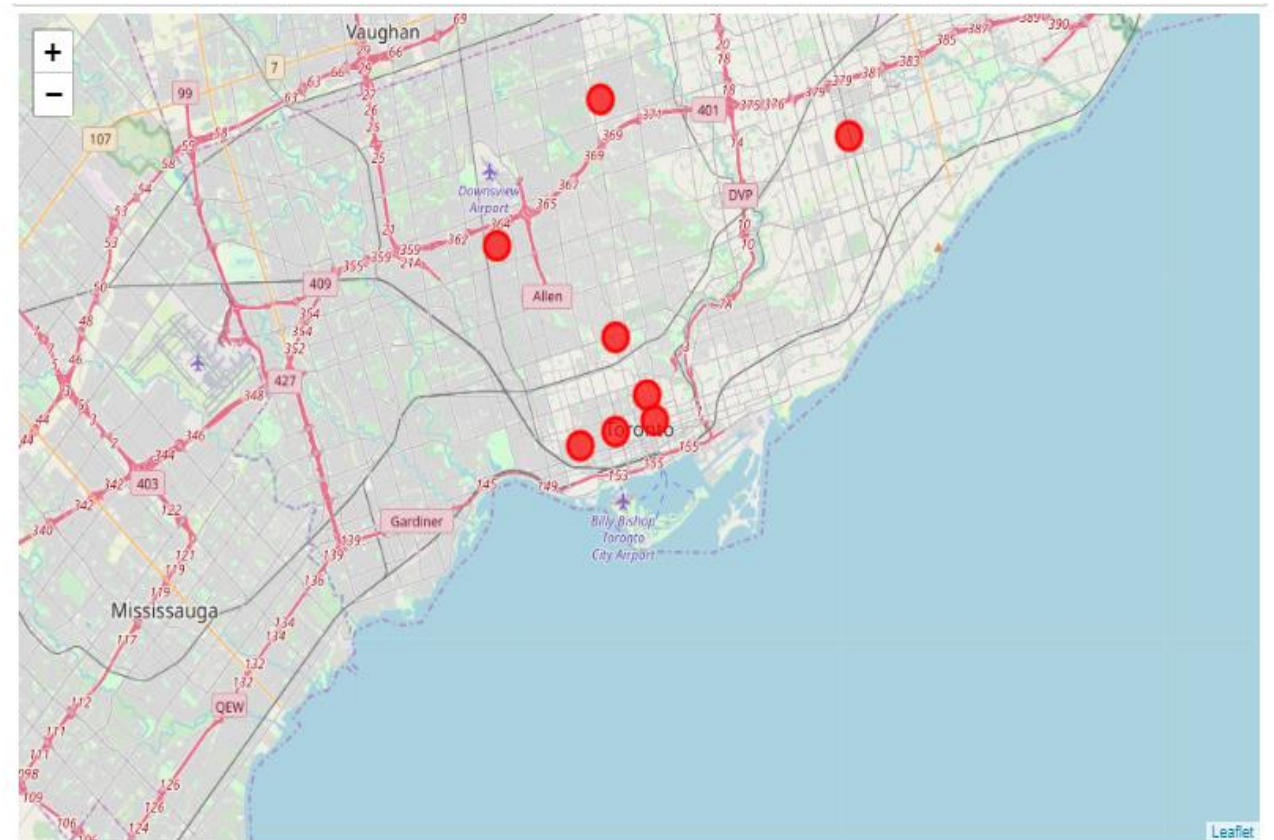
RESULTS

- Chinatown has the highest number of Vietnamese Restaurants with a total count of 4..



RESULTS

- Few neighbourhoods in Toronto that have Vietnamese Restaurants.



RESULT

- Pho Hung in Downtown Toronto has the highest likes with the number of 157 likes.

	Borough	Neighbourhood	ID	Name	Likes	Rating	Tips
7	Downtown Toronto	Chinatown, Grange Park, Kensington Market	4ad4c060f964a52056f720e3	Pho Hung	157	7.7	77

RESULT

- There are 2 restaurants with highest rating of 8.6: Banh Mi Nguyen Huong and Pho Rua Vang

	Borough	Neighbourhood	ID	Name	Likes	Rating	Tips
5	Downtown Toronto	Chinatown, Grange Park, Kensington Market	4af45a8af964a52097f121e3	Banh Mi Nguyen Huong	43	8.6	24
10	West Toronto	Little Portugal, Trinity	4ae86cb3f964a5203eaf21e3	Pho Rua Vang (Golden Turtle)	130	8.6	79

RESULT

- Pho Rua Vang in West Toronto has the highest tips.

	Borough	Neighbourhood	ID	Name	Likes	Rating	Tips
10	West Toronto	Little Portugal, Trinity	4ae86cb3f964a5203eaf21e3	Pho Rua Vang (Golden Turtle)	130	8.6	79

DISCUSSION

- There are only 12 Vietnamese restaurants in Toronto. This is a small number compared to large population of Toronto. Investors can look for investment opportunities when opening Vietnamese restaurants here. Furthermore, most of those restaurants are served Pho, a traditional dish of Vietnam.
- Thus, investors can think of another famous dishes to invest.

CONCLUSION

- Only 12 Vietnamese Restaurants in Toronto
- Downtown Toronto is the best place to stay if you prefer Vietnam Cuisine, since it has 6 Vietnamese restaurants (accounted 50% of the Vietnamese restaurants in Toronto).
- It is possible to open Vietnamese restaurants in other neighbourhood in this city where there aren't any Vietnamese restaurant here.

LIMITATIONS

- The ranking is purely on basis of rating of restaurants by FourSquare.
- The accuracy of data depends purely depends on the data provided by FourSquare