



**What best place to start a new  
healthy food restaurant in Toronto?**



# Problem Statement



**Toronto is one of the biggest cities in Canada, and it is the most populous Canadian city.**

**However, the percent of adults that had an overweight/obese status is always increasing until now! In fact, it is due to many reasons including the lack of restaurants which provide healthy food!**

# Target Audience :

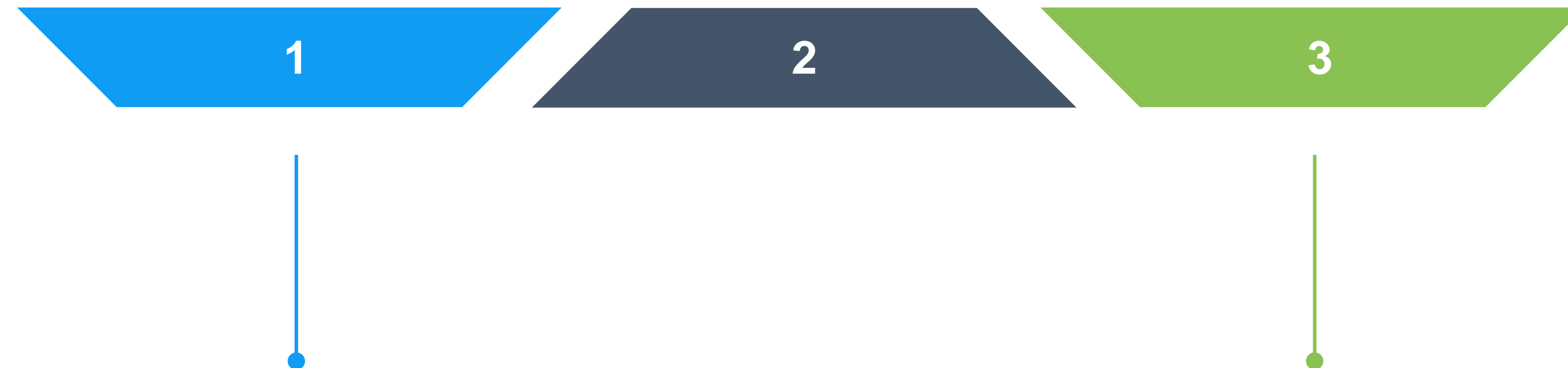
...

- People suffering from obesity.
- people who follow special diets.
- Many business man, investors and
- People used to consummate healthy food as part of their culture (people from Sweden as example)

# Data acquisition and cleaning

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“[https://cocl.us/Geospatial\\_data](https://cocl.us/Geospatial_data)” csv file to  
get all the geographical coordinates of the  
neighborhoods



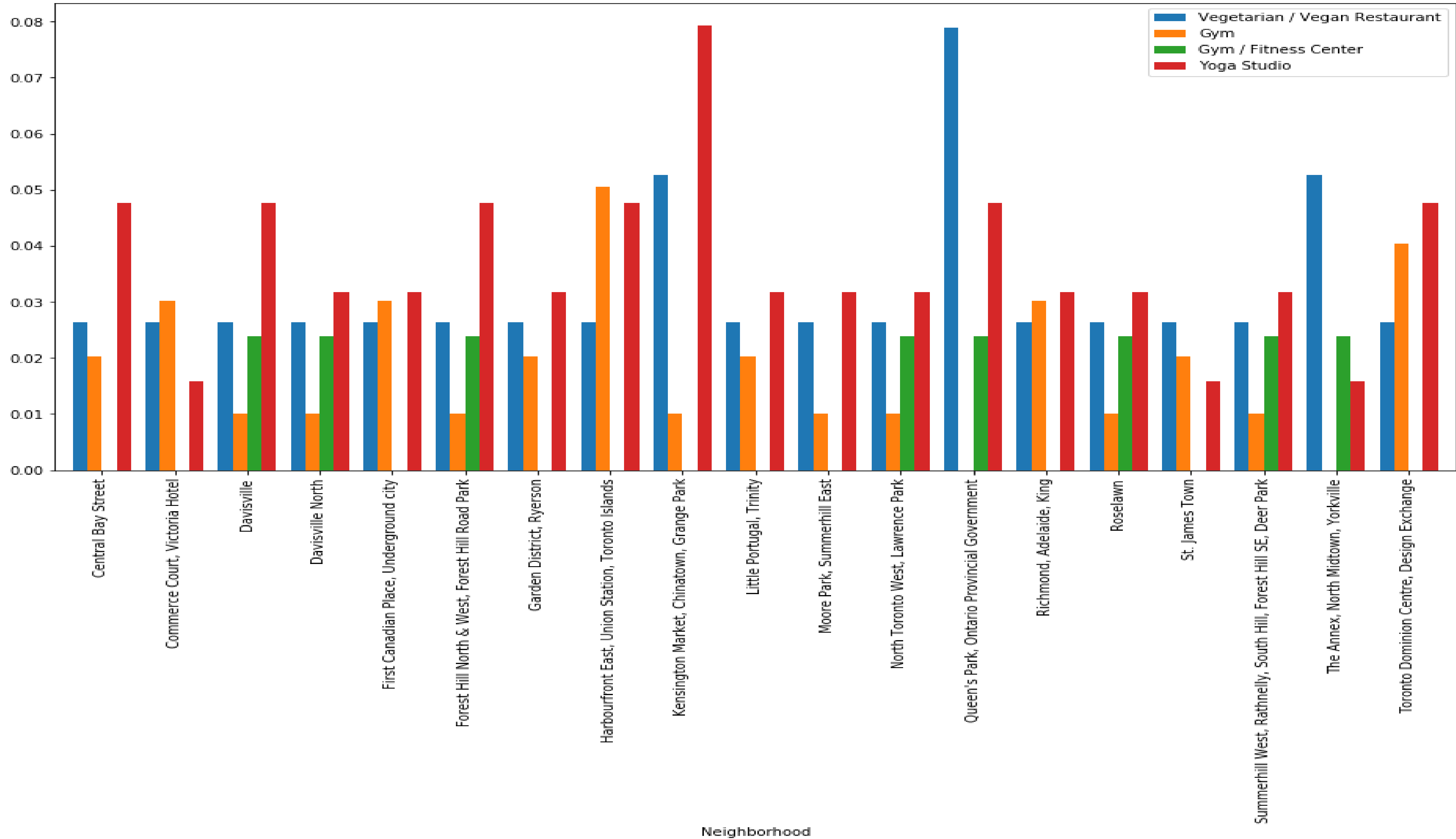
dataset of Toronto city which contains information  
about its Boroughs and Neighborhoods  
([https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M))

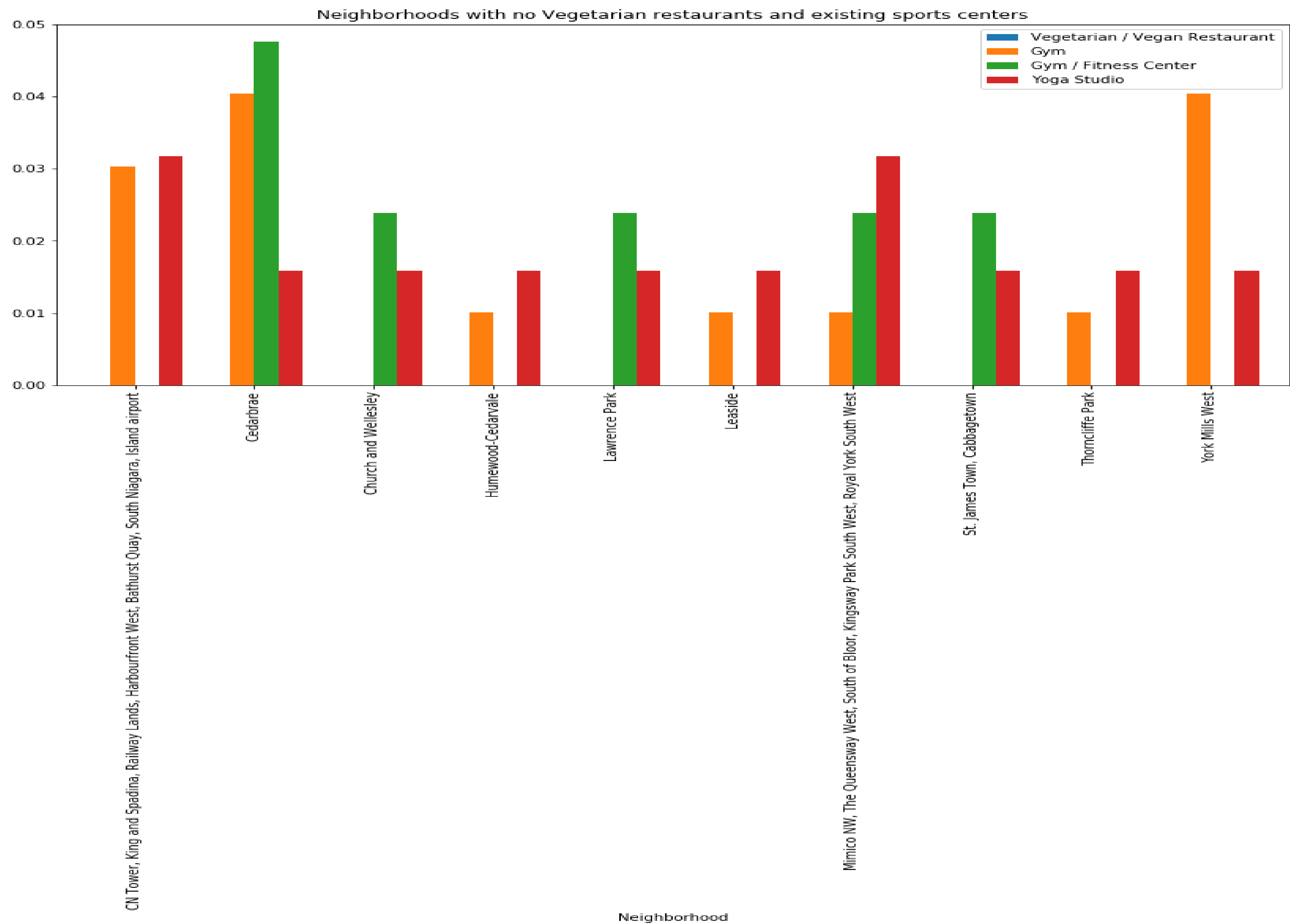
data from Foursquare API for  
each neighborhood within a  
radius of 500 m

# Exploratory Data Analysis

- Extract the following venue categories : Vegetarian / Vegan Restaurant, Gym / Fitness Center, Gym, Yoga Studio, which appears more significant.
- Draw an interactive map
- Encoding
- Grouping data by neighborhoods

Neighborhoods with existing restaurants and sports centers





# Clustering :



**For segmenting neighborhood in Toronto based on existed vegan restaurants, gym, fitness and yoga, and finding recommendation for a good start of restaurant business, clustering algorithm will be used especially K-mean method.**



# Final Clusters :

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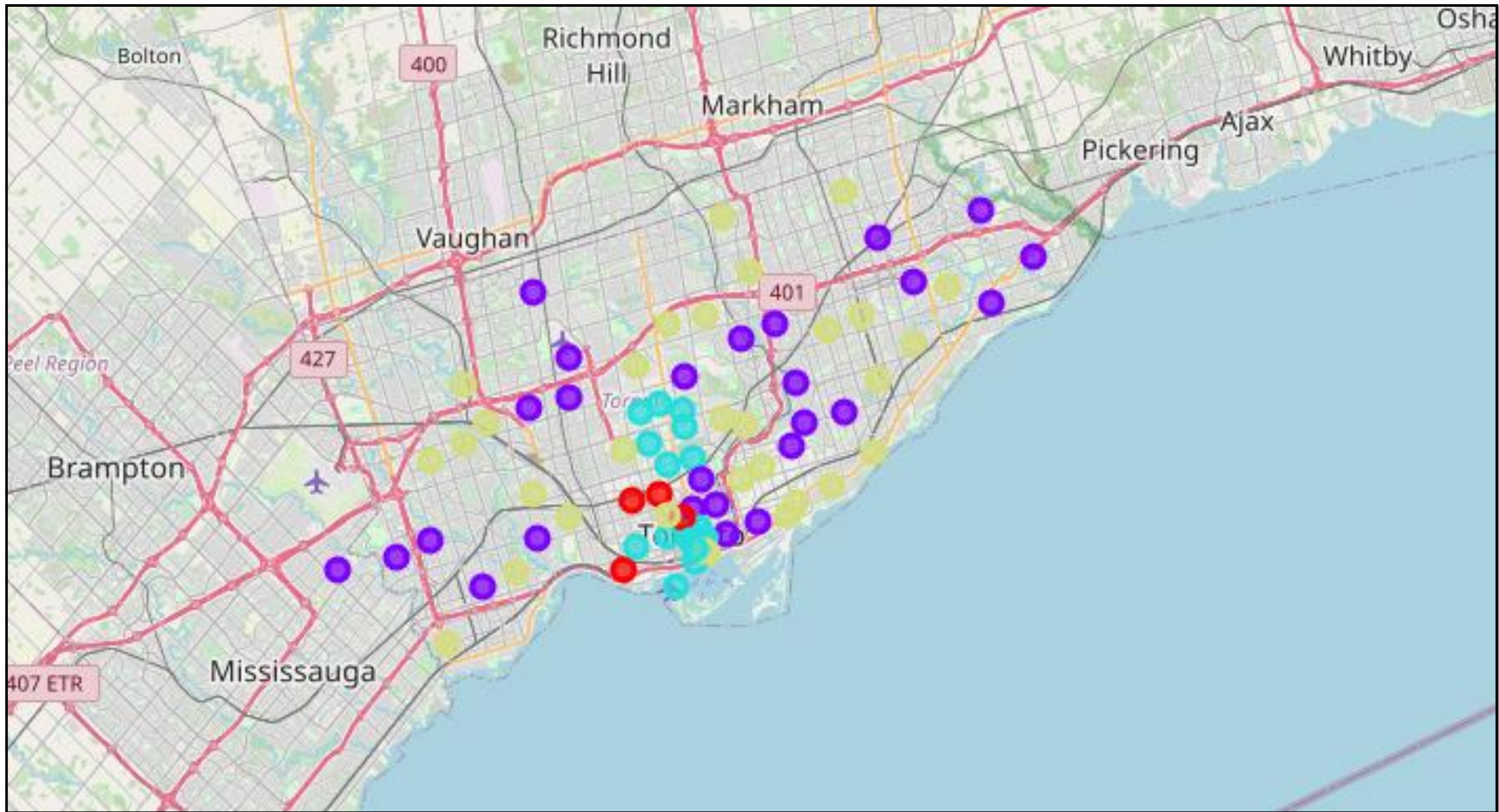
0 neighborhoods with the higher number of Vegetarian / Vegan Restaurants  
( red )

1 neighborhoods with high number of Gym/ Fitness Centers and fewer Vegetarian / Vegan Restaurants  
( purple )

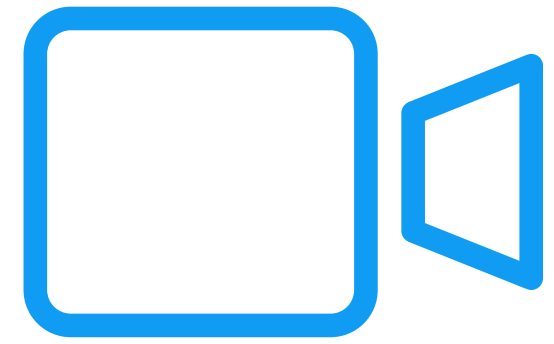
2 neighborhoods which are densely populated with Gym and yoga centers, the same as the number of Vegetarian / Vegan Restaurants  
( blue )

3 neighborhoods with a good number of Gym and yoga centers, and has least number of Vegetarian / Vegan Restaurants.  
(yellow)









## Conclusion :

Downsview, Cedarbrae and York Mills West could potentially be perfect places for starting quality healthy food restaurants.

