

The Battle of **Neighbourhoods**

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INTRODUCTION/BUSINESS PROBLEM

In this project, I am creating a hypothetical scenario for a concept that there may not be enough Italian Restaurants in Toronto Area. With the purpose in mind, finding the location to open such a restaurant is one of the most important decisions for this entrepreneur and I am designing this project to help him find the most suitable location.

In this project we will try to find the best locations to open this Italian restaurant. We will use our data science powers to find a few most promising neighbourhoods where there are not many Italian Restaurants yet.

Target Audience will be our businesspeople and investors that want to open an Italian restaurant in Toronto Canada.

DATA SELECTION

Following data sources will be used to get the required information:

1. Wikipedia will be used scrap Toronto neighbourhoods.
2. Geospatial_Coordinates.csv will be used to get Latitude and Longitude
3. information.
4. Foursquare API will be used to get restaurants data related to these 2 cities.

Above data sources will be used to get venues and Italian restaurants information to identify in which area has the most Italian restaurants and, this way, select the area with the least number of restaurants.

Data flow

1. First, it is used data from get city open data to get city information as well as latitude and longitude coordinates.
2. Then, we created a data frame with borough and neighbourhood information. For Toronto, it is used Wikipedia to get the list of Postal Code of all Neighbourhoods in Toronto.

3. List of Restaurants will be gathered using Foursquare. With this information it is possible to come up with a total as well as draw the maps with Italian restaurants locations.