

**CAPSTONE PROJECT - THE
BATTLE OF
NEIGHBORHOODS**

THAI RESTAURANT

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INTRODUCTION

Thai immigrants to Canada are primarily well-educated professionals working as bankers, dentists, doctors, nurses, computer technicians and engineers. Many of them closed businesses such as Thai restaurants or Muay Thai gyms, which has become popular in Canada.

Thai cooking places emphasis on lightly prepared dishes with strong aromatic components and a spicy edge. Thai chef McDang characterises Thai food as demonstrating "intricacy; attention to detail; texture; color; taste; and the use of ingredients with medicinal benefits, as well as good flavor", as well as care being given to the food's appearance, smell and context.

So as part of this project, we will list and visualize all major parts of Toronto that has popular Thai restaurants.

DATA

- For this project we need the following data :
- Toronto,CA data that contains list Boroughs, Neighborhoods along with their latitude and longitude.
 - Data source : https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M and get latitude,longitude from https://cocl.us/Geospatial_data
 - Description : This data set contains the required information. And we will use this data set to explore various neighborhoods of new york city.
- Thai resturants in each neighborhood of Toronto city.
 - Data source : Fousquare API
 - Description : By using this api we will get all the venues in each neighborhood. We can filter these venues to get only indian resturants.
- GeoSpace data
 - Data source : Generating GeoJSON File for Toronto FSAs
<https://medium.com/dataexplorations/generating-geojson-file-for-toronto-fsas-9b478a059f04>
 - Description : By using this geo space data we will get the Toronto Borough boundaries that will help us visualize choropleth map.

APPROACH

- Collect the postal code, borough, neighborhood of Toronto city data from wikipedia
- Collect latitude, longitude data from https://cocl.us/Geospatial_data
- Using FourSquare API we will find all venues for each neighborhood.
- Filter out all venues that are Thai Restaurants.
- Find rating, tips and like count for each Thai Restaurants using FourSquare API.
- Using rating for each restaurant, we will sort that data.
- Visualize the Ranking of neighborhoods using folium library(python)

Defined the problems

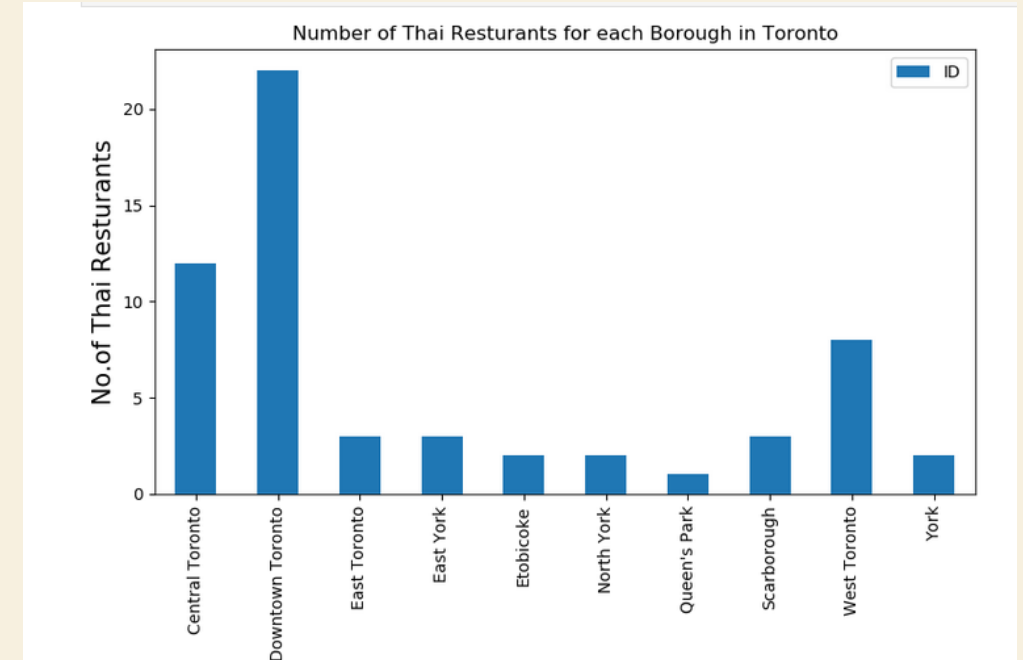
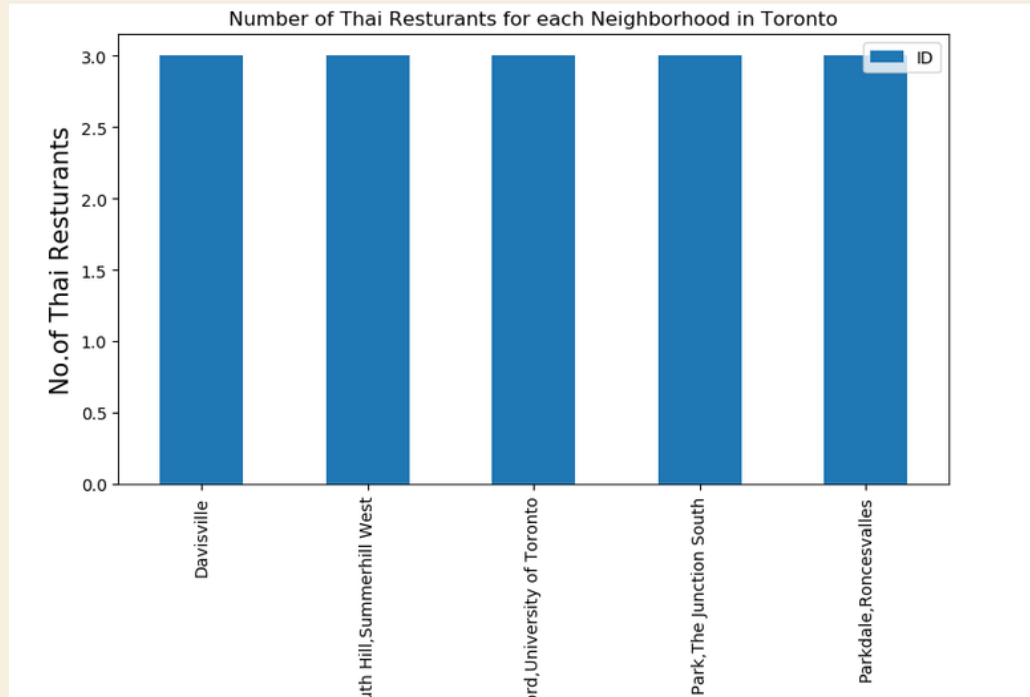
- As a Thai food business, seeing the picture in business for Thai restaurants, so we would like to find out about the business
 - Best Places in Toronto city for Thai cuisine
 - which areas have the potential to market for Thai Restaurant
 - which is the best place to stay if I like Thai food

Stackholde

- Owner Thai Cuisine.
- Some one who want to eat Thai Food.

ANALYSIS

- We will import the required libraries for python.
- pandas and numpy for handling data.
- request module for using FourSquare API.
- folium to visualize the results on a map



In Toronto have 58 Thai. Restaurants but the most number of Thai restaurants is at Down Town and it have similarity number for each borough.

Results form foursquare API

Resturant with maximum Tips

Borough	Downtown Toronto
Neighborhood	Adelaide,King,Richmond
ID	529612de11d2ab526191ccc9
Name	Pai
Likes	635
Rating	9.3
Tips	193
Postcodd	M5H
latitude	43.7067
longitude	-79.5941

Resturant with maximum Likes

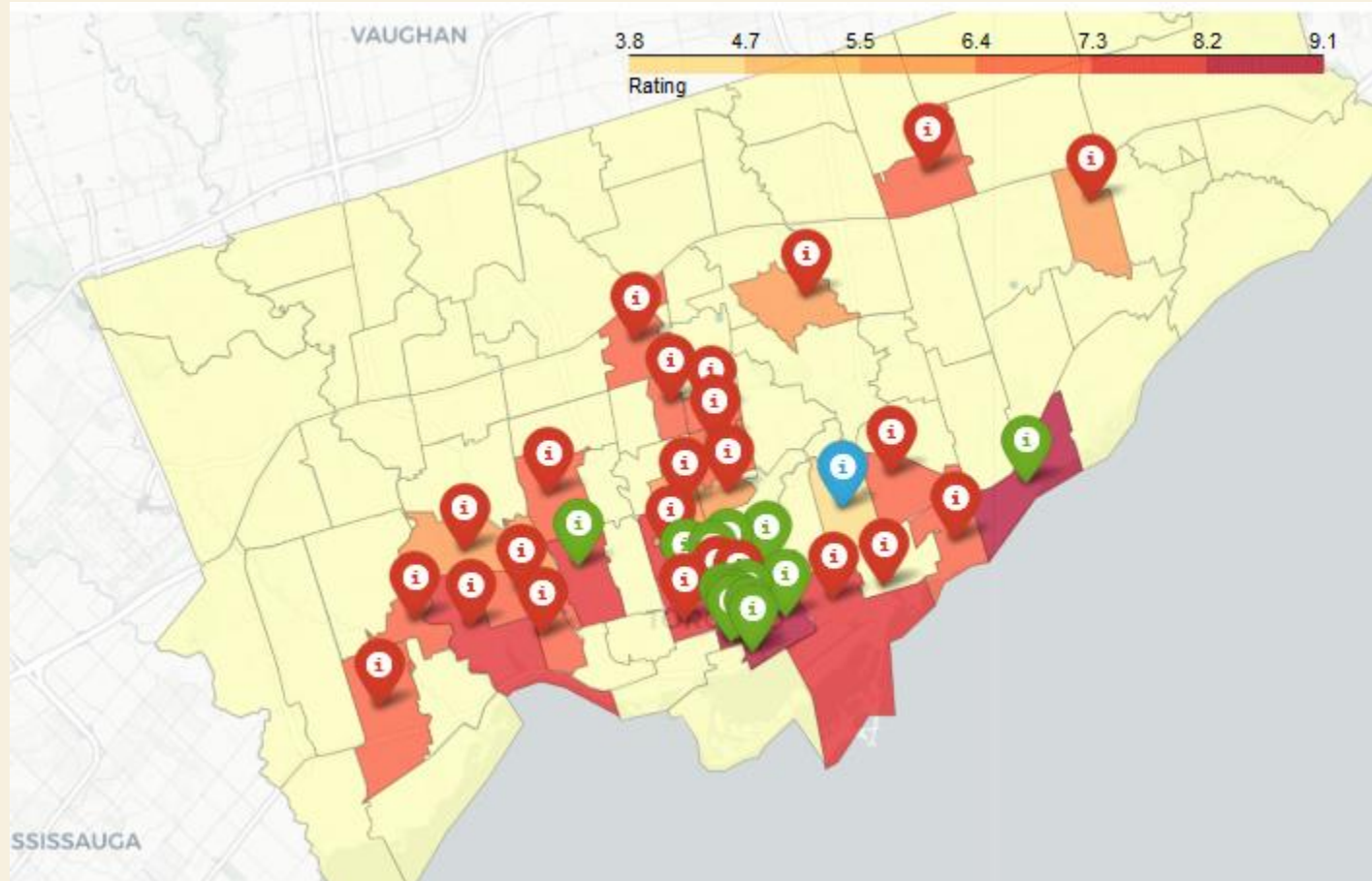
Borough	Downtown Toronto
Neighborhood	Ryerson,Garden District
ID	4ad4c061f964a52095f720e3
Name	Salad King
Likes	489
Rating	8.5
Tips	207
Postcodd	M5B
latitude	43.7067
longitude	-79.5941

Resturant with maximum Rating

Borough	Downtown Toronto
Neighborhood	Adelaide,King,Richmond
ID	529612de11d2ab526191ccc9
Name	Pai
Likes	635
Rating	9.3
Tips	193
Postcodd	M5H
latitude	43.7067
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**In Downtown Toronto is
maximum Tips, Like , rating
from foursquare API to
show “Pai” is popularity
Thai restuarant in Tonronto.**

Visualize the Data



Now that we have visualized the Neighborhoods. In green maker show the Restaurants is rating between 8-9 point
in Red maker show the Restaurants is Rating Between 0-7 Point
And Others show in blue point

Conclusion

- The best place to run the Thai food business is located in the Down Town area in Toronto, as it is considered rating, which means a lot of people who have been eating Thai food, heading Down to Down Town, to go to those Thai cuisine.

Limitations

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