# Capstone Project The Battle of Neighbourhoods

## Introduction

In this project I am going to find out the best neighborhood for a person who just moved to Toronto or the one who is looking to move to Toronto. Obviously, there would be many factors on which user can choose its residency like there should be some grocery stores, hospitals, Restaurants and Gym etc. As whenever anybody changes its location it is difficult for him to adjust himself and adopt himself according to that surroundings. Therefore I am going to analyze the region of Toronto that what would be the best location for a person who is moving from Pakistan. As now Toronto, Canada became the favorite destination for many Pakistani Students

## Business Problem

The City of Lahore, is the most populous city in the Lahore. Lahore is a city with an extremely rich food culture. People from Lahore are famous all over the country for their love for food. The city offers a vast variety of options when it comes to gastronomy. In recent times, the style of food has achieved popularity in a number of different countries, because of its palatable and milder taste, mainly through the Pakistani diaspora. Moreover, there are many young people from lahore who visit Canada or some foreign countries for higher studies and they oftenly miss their home taste, therefore they face many difficulties to find some good food. Mostly people of lahore loves to eat "Daisi Food", Chinese Food and Italian Food. Therefore in this way they can find suitable place to get food easily.

## Solution

By using Foursquare API I will analyze the nearest neighbors / locations in Toronto so person can get know what would be the most suitable place for him where he/she can feel like home.

## Data Section

When I passed search parameter to Foursquare API it gives the json result. Using this json result I will find hidden truths to find the best possible solution.

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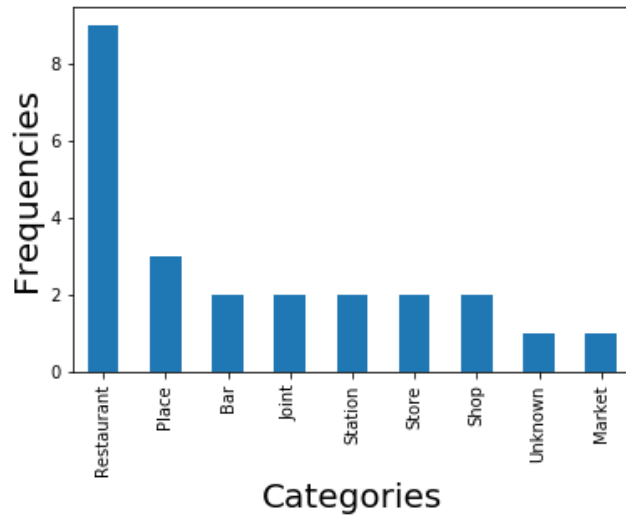
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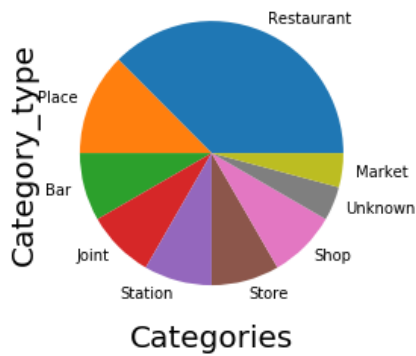                'lng': -79.29517489213902,

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## Approach

After mapping the data which I got from Foursquare API, converted that data into specific and generalized Category so it can be differentiated easily and person may get know the frequencies of categories. Like there are 8 resturants and 1 hospital near the residency. As shown in plot.



If we see this in pie chart, then:

Map of location can be shown as below:



## Conclusion

After this report we can easily conclude that this place would be perfect for user if user wanted to have all facilities near to its residency. So, these are the facilities which person may get if user choose this location.

```
Restaurant     9
Pizza Place    3
Bar            2
Joint          2
Station        2
Store          2
Shop           2
Market         1
```