Use Foursquare APIs and ML to find a good place to open new restaurant in Toronto

1. Introduction

1.1 Background

Let's say we are going to open a new restaurant in Toronto; and before doing that, we need to explore the current market in that area. Assumed that we will open a Chinese restaurant, so we need to find a location where Asian food is popular.

1.2 Business Problem

We need to find the most suitable location within a suitable neighborhood to open a new Chinese restaurant in Toronto. By using data science methods and machine learning methods such as k-Means or KNN, this project aims to provide solutions to answer the business question: In Toronto, if an entrepreneur wants to open a Chinese restaurant, where should they consider opening it?

1.3 Target Audience

The entrepreneur who wants to find the location to open authentic Chinese restaurant

2. Data

To solve this problem, I will need below data:

- List of neighborhoods in Toronto, Canada.
- Latitude and Longitude of these neighborhoods.
- Venue data related to Asian restaurants. This will help us find the neighborhoods that are the most suitable to open a Burmese restaurant.

3. Scrapping the data

- Scrapping data of Toronto neighborhoods on Wikipedia
- Extract lat-long of them
- Call Foursquare APIs to get venue data related to these neighborhoods