

Introduction

Toronto is considered as one of the most populous cities in Canada and many immigrants choose Toronto as their number one destination when it comes to living due to its multi-cultural inclusiveness. As a result, different cuisines from all around the global can be found in Toronto as immigrants brought different food from their hometowns. No matter what you enjoy, sushi, Korean BBQ or Chinese hot pot etc., you can find them in Toronto.

All kinds of restaurants require servicing companies to provide some kind of support such as food supply and utensils providing etc. There is an issue, however, troubles many restaurant servicing companies and that is how to choose the location of the companies that enables the company serve as many restaurants as possible with relative low cost.

For this project, data from various sources were utilized and machine learning technique was applied to figure out the optimal location to build up a restaurant servicing company.

Data

Data for this project was obtained primarily from three sources:

1. Wikipedia: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
2. Foursquare API
3. http://cocl.us/Geospatial_data

Google map and Google search were also used as supplemental tools to explore areas and find geographical data.

Data from Wikipedia was scraped to data frame by using BeautifulSoup library, and it provides information of postal code, borough and neighborhood name. Foursquare data was obtained via API and provided more detailed information about restaurant name, restaurant type and restaurant geographical location. In addition to the data from Wikipedia and Foursquare, a online csv file from http://cocl.us/Geospatial_data was used to fetch the latitude and longitude information for each unique postal code.