

1. Introduction

1.1 Background:

Canadian real-estate has attracted many Chinese investors, and Joe is one of them. As a successful business man from China with low risk preference, Joe is looking for an investment opportunity with moderate return which requires a careful consideration of location.

Joe is looking for a location in Toronto with both Chinese restaurants and supermarkets providing Chinese groceries, so that he could easily find Chinese tenants and maintain an acceptable level of income. The other factors that Joe should consider is the safety and quietness of the surroundings.

1.2 Problem:

The major features of the apartment that Joe is looking for are as following:

- With Chinese grocery stores nearby
- With Chinese restaurants nearby
- Better be near a mall or city-center environment

1.3 Interest:

Location selection based on data analysis is gaining increasing attention recently, and by doing this project I will be able to hone my related skills from which I will benefit in the long term. And the process of deciding the related elements is meaningful in the real-life projects.

2. Data Description

Wikipedia and Foursquare are the two main data sources in this report, and details such as venue, service categories, location, ratings and tips will be gathered for Joe to make better investment decision.

2.1 Data Scraping

Details of the Toronto city will be scraped from wikipedia (https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M) which were later cleaned and transformed into pandas data-frame for better analysis.

2.2 Location Analysis

Foursquare provides the neighborhood information including venue, service categories, location addresses, ratings and tips.