Capstone Project - The Battle of Neighborhoods Foreign restaurants in Beijing

November 6, 2020

1   Introduction

1.1   Business problem

In this project we will try and identify ideal districts in Beijing to open an italian restaurant.

1.2   Background

With thousands of restaurants across its 16 districts, Beijing is certainly a world-renowned food capital. Although mostly focused on chinese cuisine, the city is open to international culinary traditions, in particular korean, japanese and italian. Ideal places to taste foreign cuisine might still be limited to specific areas.

With the help of Foursquare location data and machine learning we will try and uncover locations within the city which seem the most open to foreign cuisine. Specifically, we will cluster Beijing districts relative to their restaurant venues information collected on Foursquare.

2   Data

For this project we will scrape the table with the districts of Beijing available at: *https://en.wikipedia.org/wiki/List_of_administrative_divisions_of_Beijing*

Geospatial coordinates for each district will be obtained via the geocoder class of the GeoPy Python library.

By using the Foursquare API we will get all the venues in each neighborhood. We can filter these venues to get only restaurants and pizzerias.