

Capstone Project - The Battle of Neighborhoods

Introduction

Toronto and New York are both very large and busy cities. Both cities are very diverse and are the financial capitals of their respective countries. A tourist agency wants to know what the best place is to visit for Asians tourists. Also, these tourists would rather walk than taking taxis, which means the locations should be close to each other. They ended up with two locations, Toronto and New York. The final decision will be based on number of Asians restaurants around the city.

In this project, we will analyze the neighborhoods in the two cities. Using Foursquare APIs, we will fetch the data for the venue in these neighborhoods.

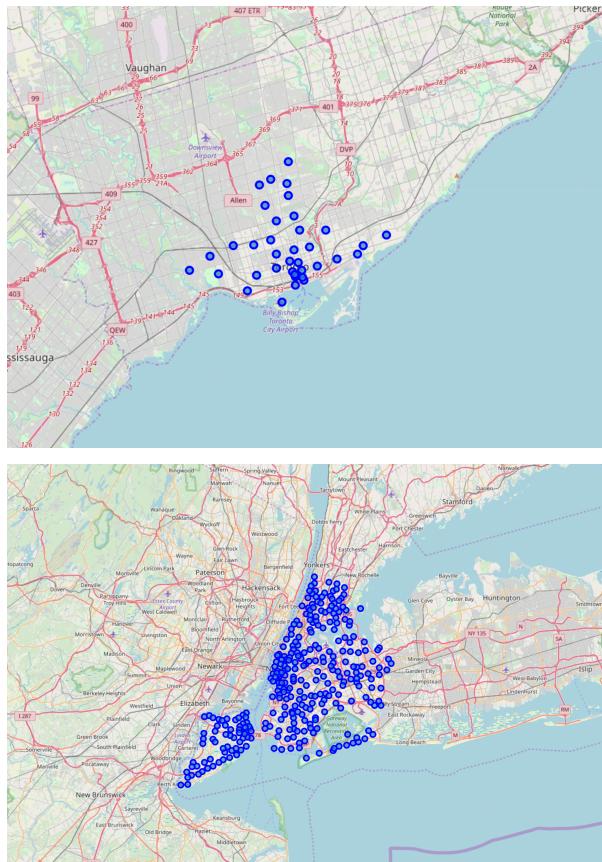


Data

The data that will be used in this experiment will be collected from multiple sources. For New York city we are getting the data from New York University Spatial Data Repository, where the data is formatted in a JSON file, can ready to be used. In the other hand, we're getting the data for Toronto from Wikipedia, and we will need to clean out and prepare the data to be used. Finally, we will utilize Foursquare APIs, to get insights about people's activity in a specific area

The sources:

- New York Data; Prepared by NYU
https://cocl.us/new_york_dataset
- Toronto Data
https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
http://cocl.us/Geospatial_data
- Foursquare Developer APIs
<https://api.foursquare.com>



Methodology

First, we will start gather the data from the sources mentioned above. We will start first with New York, and later we will collect Toronto dataset. Once the data is loaded into jupyter notebook, we will filter the data to get the neighborhoods of Toronto and New York

Foursquare APIs will be used to fetch the venues around the cities, then later on we will be required to filter out the data to show the Asians restaurants

Finally using Panda's dataframe grouping, we will get the final count number of the restaurants

Conclusion

It turns out from our sample; it shows that New York city has more Asian restaurants than Toronto. So the tourists agency decided to focus their trips to New York over Toronto