The Battle of Neighborhoods

Introduction

New York City, also known as the City of New York or simply New York (NY), is the most populous city in the United States. New York City comprises 5 boroughs sitting where the Hudson River meets the Atlantic Ocean. At its core is Manhattan, a densely populated borough that's among the world's major commercial, financial and cultural centers.

Toronto, the capital of the province of Ontario, is a major Canadian city along Lake Ontario's northwestern shore. It's a dynamic metropolis with a core of soaring skyscrapers, all dwarfed by the iconic, free-standing CN Tower.

The New York City and the city of Toronto are very diverse and are the financial capitals of their respective countries. In this project we are exploring the neighbourhoods of both cities with the help of Foursquare Places apis. In exploring the Neighbourhoods, we will figure out how similar or disimilar their neighbourhoods are. In doing so we will have answer to several questions such as Which locations would be best for me if i move from toronto to New York ? or which location would be the best for opening the another branch of my company ?

Data Description

New York city Neighbourhood Data

Neighborhood has a total of 5 boroughs and 306 neighborhoods. In order to segement the neighborhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighborhoods that exist in each borough as well as the the latitude and logitude coordinates of each neighborhood.

This dataset exists for free on the web. Link to the dataset is:
https://geo.nyu.edu/catalog/nyu_2451_34572

Toronto City Data

For city of toronto we are going to extract information regarding it's neighbourhoods from wikipedia page : https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

Geographical coordinates data of both the cities will be utilized as input for the Foursquare API, that will be leveraged to provision venues information for each neighborhood. We will use the Foursquare API to explore neighborhoods in both cities