

IBM Applied Data Science – Capstone Project

Introduction:

Toronto and New York are some of the commanding cities of the world. Both has been known for their diversities and their financial impact on their respective countries. The Downtown Toronto Area and Manhattan have been claimed for having similarities by numerous people for their respective role in their cities. However, after visiting both cities, I think a better neighborhood's layout comparison to Downtown Toronto is Brooklyn. So today I am going to break down the differences and similarity between Downtown Toronto and Brooklyn using K-Mean Clustering, NY to see the differences in the layout and which of the two is more worth-visiting

Data:

We will use Foursquare API to explore the data of two cities, in terms of their neighborhoods. The data also include the information about the venues in each neighborhood. We will use “K-Mean Clustering” to segment the neighborhoods with similar objects based on their activities' footprints. We will judge the similarity and dissimilarity between two areas of two cities based on this metric

Methodology:

Analysis of both boroughs using K-Mean Clustering on venues' footprints seperately then compare the footprints

Result:

After clustering the data of the respective neighborhoods, both areas have similar tourist attraction venues such as cafes, food places, clubs, museums, parks, department stores, stadium, harbors.

Conclusion:

Downtown Toronto seems to be more appealing to visitors based on their most common venues, many of which is a tourist area. Brooklyn, while having all possible tourist attractions, in some way even more diverse than Downtown Toronto, footprint indicated that the most visited places are restaurants, dominantly for residential lifestyle.

Therefore, I recommend a short visit to Downtown Toronto where the most commonly visited places are suitable for tourists such as Theaters, opera houses, food places, clubs, museums, parks, etc. However, you cannot go wrong with Brooklyn either. The area is filled with multiple restaurants, stores, museums, parks, bridges, etc, suitable especially for long-term stay.