

BATTLE OF NEIGHBOURHOOD - I

PROBLEM & BACKGROUND

Toronto and New York City are the most popular towns in the world. Both are multicultural and diverse as well as the financial hubs of their respective countries. We want to explore how much they are similar or dissimilar in aspects from a tourist point of view regarding food, accommodation, beautiful places, and many more. Tourism is one of the main factors of the rising economy and the people most often visits those countries which are rich in heritage and developed enough from a foreign prospective. So, the information is so common regarding location of every place around the world which make it easier to explore. Therefore, tourists always eager to travel to different places on the basis of available information, and the comparing each detail between the two cities always assist people to choose the best one as per the choice.

DATA DESCRIPTION

For this problem, we will get the services of Foursquare API to explore the data of two cities, in terms of their neighborhoods. The data also include the information about the places around each neighborhood like restaurants, hotels, coffee shops, parks, theaters, art galleries, museums and many more. We selected one Borough from each city to analyze their neighborhoods. Manhattan from New York and Downtown Toronto from Toronto. Technique called, "Clustering" we will be using to segment the neighborhoods with similar objects on the basis of each neighborhood data. These objects will be given priority on the basis of foot traffic (activity) in their respective neighborhoods. This will help to locate the tourist's areas and hubs, and then we can judge the similarity or dissimilarity between two cities on that basis.

METHODOLOGY

As we have selected two cities Borough to explore their neighborhoods. The data exploration, analysis and visualization for both boroughs are done in the same way but separately.

EXPLORATION

For Downtown Toronto case, we have extracted table of Toronto's Borough from Wikipedia page. Then we arrange the data according to our requirements. In the arrangement phase, which applied multiple steps including but not limited to, eliminating "Not assigned" values, combine neighborhoods which have same geographical coordinates at each borough and sorted against the concerned borough. For data verification and further exploration, we use Foursquare API to get the coordinates of Downtown Toronto and explore its neighborhoods. The neighborhoods are further characterized as venues and venue categories.