

## **Similarity between Manhattan, New York and Downtown, Toronto**

### **Introduction**

Tourism is a complex set of industries including accommodation, recreation & entertainment and food & beverage services. These days people would like to visit different places like New York and Toronto to experience and explore the life, heritage and culture of the locals. Tourists need the information regarding the nearby coffee shops, restaurants, hotels/accommodation, places to visit and many more. These days information about locations is readily available to explore.

The purpose of this project is to determine how similar are these two cities when it comes to tourism. It will assist tourists by providing them with the information needed to travel with a comparison of two places Manhattan, New York and Downtown, Toronto to make their decision depending on their choice.

### **Stakeholders**

- The tourists who are planning a trip to North America and want to visit one of these two locations
- A Data Analyst or a Data Scientist who wants to compare the two places to identify tourist areas and the similarities of Manhattan, New York and Downtown, Toronto.

### **Data sources**

- For New York city data available at [https://geo.nyu.edu/catalog/nyu\\_2451\\_34572](https://geo.nyu.edu/catalog/nyu_2451_34572). and
- For Toronto we will web scrape city data from [https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

### **Methodology**

The data extracted from the above webpages will have the neighborhood data of different places in New York and Toronto. For the purpose of this project we will concentrate on places in Manhattan, New York and Downtown, Toronto using the Foursquare API services.

We will apply a machine learning algorithm of K-means Clustering to compare the two places Manhattan, New York and Downtown, Toronto and find the similarities.