

BATTLE OF NEIGHBOURHOODS TORONTO VS NEW YORK BY-KAJAL PANDA

INTRODUCTION

PROBLEM OVERVIEW:

- Understanding the similarities and dissimilarities of the neighbourhoods of North York, Toronto and Manhattan, New York city
- Selecting the best neighbourhood from above places for a person named Laurel as she has to choose from the above two job locations
- Objective- to obtain the insights of neighbourhoods of these two locations

PLAN OF WORK

- Transforming the data and cleaning it to get the required data frame with postal code with respective neighbourhoods, latitudes and longitudes
- Getting the nearby venues using Foursquare APIs
- Clustering the similar neighbourhoods by K-means clustering

DATA SOURCES

Toronto neighbourhoods with boroughs:

https://en.wikipedia.org/wiki/List of postal codes of Canada: M

Toronto Latitudes and Longitudes:

http://cocl.us/Geospatial data

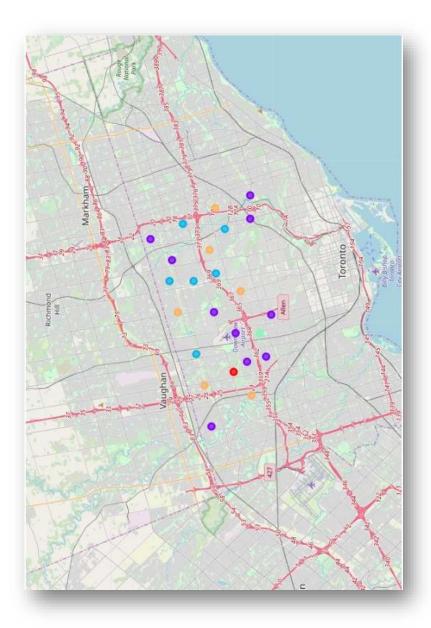
New York city neighbourhoods with boroughs:

https://geo.nyu.edu/catalog/nyu 2451 34572

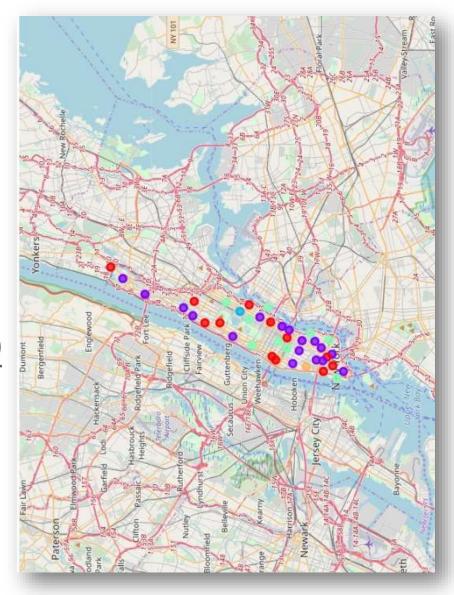
New York city Latitudes and Longitudes:

Python Geo library

MAP OF NORTH YORK BOROUGH OF TORONTO NEIGHBOURHOOD CLUSTERS



MAP OF MANHATTAN BOROUGH OF NEW YORK CITY NEIGHBOURHOOD CLUSTERS



COMPARISON BETWEEN NORTH YORK AND MANHATTAN

- North York has 204 distinct venues in 110 categories
- Most common venues include coffee shops, asian and chinese restaurants, clothing stores etc.
- Manhattan has 2857 distinct venues in 336 categories which is humongous in number
- Most common venues are book stores, pizza place, coffee shops, gyms, bakeries, grocery stores and much more

CONCLUSION

In the comparison between North York and Manhattan, Manhattan excels as it has more number of distinctive venues in more different categories than North York. Manhattan will be the best job location for Laurel to get a better neighbourhood and standard place for accommodation.

FUTURE SCOPE

Like this problem, we can compare any neighbourhood for relocating, job accommodation, buying houses, setting up businesses etc. This project can be broadly categorized into many other intrigue problems. And the solution can have codes like this project including different types of clustering and classifications.

THANK YOU FOR YOUR PAIENCE