

IBM APPLIED DATA SCIENCE CAPSTONE

Relocation Recommendation System based on Neighborhood Similarity

Aymal Khalid Khan

- **INTRODUCTION**

This project aims to aid the user with choosing an ideal location for moving an office space/store/home to another city. It uses neighborhood segmenting and clustering to group neighborhoods in the destination city and on this basis recommend an array of similar neighborhoods to choose from.

The similarity between two neighborhoods is measured by comparing the venues in the Neighborhood. The type of venues that will be accommodated in this study include venues to shop, eat, drink and visit at.

This study uses Foursquare API and a multitude of data sources to acquire location data. These are described in greater detail in the next section. For this study we compare the Neighborhoods of Toronto and New York but the same concept can be extended to any pair of cities.

- **Business Problem:**

The specific target users of this kind of application would include small scale offices and working employees who wish to relocate for better professional opportunities without compromising on the quality of life or to move to a similar place.