

## **I. Introduction and Business Problem**

This report is made for the final course of the applied Data Science Specialization, this has 4 courses created by IBM and Coursera. In this project the learner has the right to decide the topic where would be needed to leverage the Foursquare location data to solve or execute.

The main goal will be exploring the neighborhoods of New York City, Toronto city and Paris in order to define with neighborhoods are related bearing in mind the most common venues close to each neighborhood.

The idea comes from a family who want to move having similar venue close to their home. This will work for a family that wants to move from New York, Toronto or Paris, to any of the neighborhoods of these cities.

So, can we define which neighborhoods are more alike to move on without much changes in the closest venues? If so, which are the neighborhoods more likely to have the same venues

The target audience for this report are:

- Potential families in New York, Toronto, or Paris that want to move to a similar neighborhood in those cities.
- Entrepreneurs who want to open a new venue having in mind the lack or excess of similar venues in each neighborhood.
- Learners who would be interested in Clustering and a location foursquare application