

Where to Live – Report

Introduction

Background

People traveling on business trips or people willing to move to other countries usually prefer to stay at locations similar to the ones they currently live in. Others may prefer to move to places that are similar to other places they would like to live in. For example, people who live in western-cultured neighborhoods may be inclined towards living in places with similar taste. On the other hand, they may wish to relocate to areas of a different flavor, a middle-eastern one per say. So, helping people decide the neighborhood they would live in based on places they prefer would be of great help.

Data

We will leverage the data obtained from the Foursquare API to gain insights about locations, and hence, decide on their similarity. We will focus on two areas, Toronto and Manhattan.

Methodology

First, we will obtain the desired data from the Foursquare API; then, we will receive the data in a pandas data frame, clean it, and structure it properly. Finally, we will use k-means clustering to partition the Manhattan's and Toronto's neighborhoods into groups of similar characteristics, based on their venues as provided by the Foursquare API