Segmenting and Clustering Neighborhoods in Fredericton, NB

Applied Data Science Capstone Week 5 Peer-Graded Project Report

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Data

To understand and explore we will need the following City of Fredericton Open Data:

- 1. Open Data Site: http://data-fredericton.opendata.arcgis.com/ (http://data-fredericton.opendata.arcgis.com/)
- quartiers (http://data-fredericton.opendata.arcgis.com/datasets/neighbourhoods--quartiers)
 Fredericton Crime by Neighbourhood: http://data-fredericton.opendata.arcgis.com/datasets/crime-by-neighbourhood-2017--crime-par-quartier-2017 (http://data-fredericton.opendata.arcgis.com/datasets/crime-by-neighbourhood-2017--crime-par-quartier-2017)
- 4. Fredericton Census Tract Demographics: http://data-fredericton.opendata.arcgis.com/datasets/census-tract-demographics--donn%C3%A9es-d%C3%A9mographiques-dericton.opendata.arcgis.com/datasets/census-tract-demographics--donn%C3%A9es-d%C3%A9mographiques-donn%C3%A9es-d%C3 du- secteur-de-recensement)
- 5. Fredericton locations of interest: https://github.com/ashnakumar/Coursera Capstone/blob/master/Fredericton%20Locations.xlsx
- 6. Foursquare Developers Access to venue data: https://foursquare.com/ (https://foursquare.com/)

Using this data will allow exploration and examination to answer the questions. The neighbourhood data will enable us to properly group crime by neighbourhood. The Census data will enable us to then compare the population density to examine if areas of highest crime are also most densely populated. Fredericton locations of interest will then allow us to cluster and quantitatively understand the venues most common to that location.