

Battle of Neighborhoods

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Project Motivation and Objective

- Burlington, Ontario, is ranked as Canada's best community and best place to raise a family by [Maclean's Magazine](#).
- This project provides a clustering of Burlington neighborhoods into 4 groups, based on their school performance scores and average house prices, and lists each neighborhood parks, playgrounds, and sports fields.
- The outcome of this project would be beneficial to families (with school-age kids), and their real estate agents, looking for buying properties in Burlington by narrowing down their search

Data

- The list of neighborhoods ,the average house price in each neighborhood, and the list of schools for each neighborhood are scraped from:

<https://burlingtonneighbourhoods.com/>

- School performance scores by Fraser Institute for each school are scraped from:

<https://www.compareschoolrankings.org/>

- The parks, playgrounds, and sports fields of each neighborhood are searched from Foursquare API :

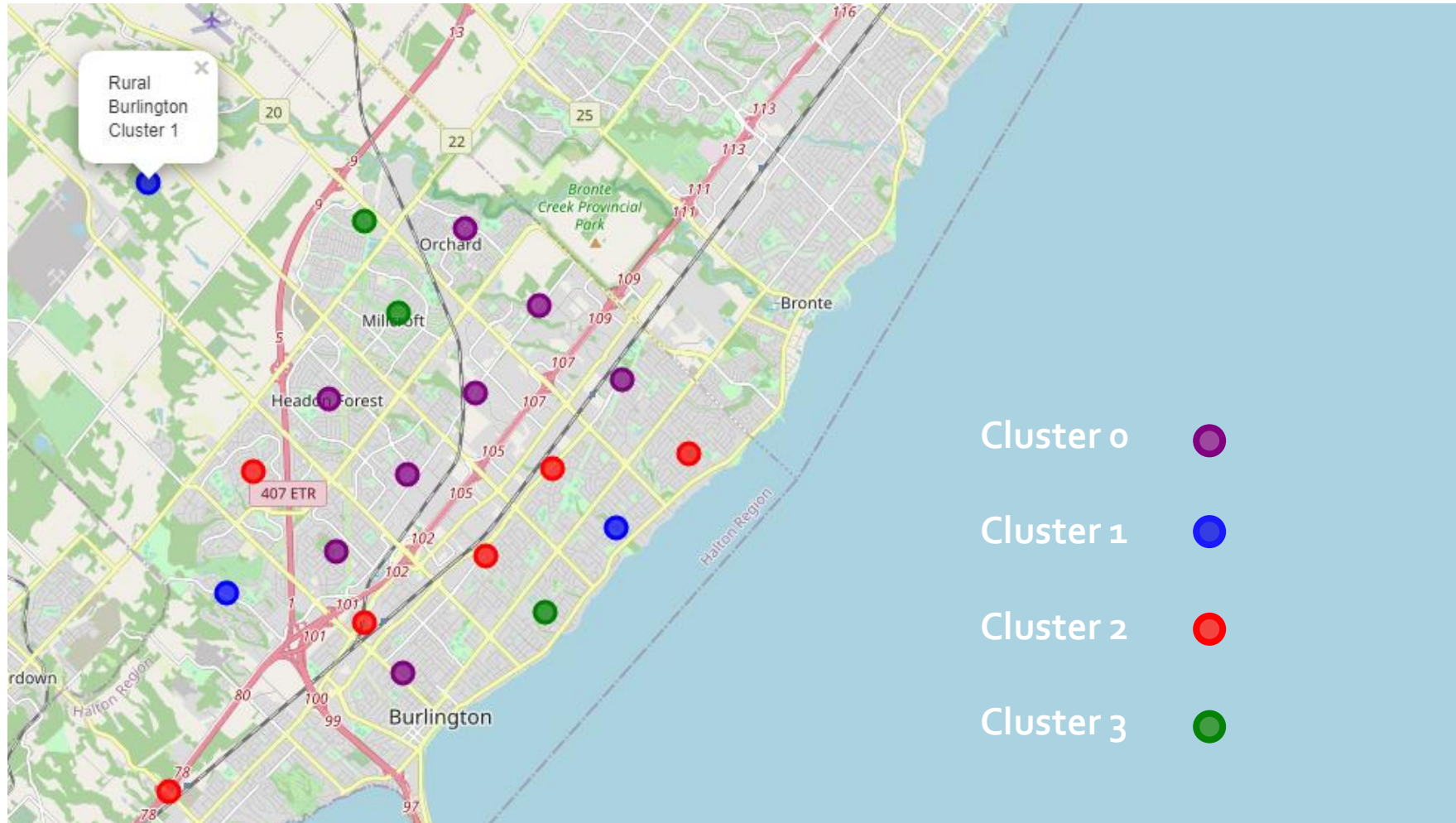
<https://developer.foursquare.com/places>

Methods

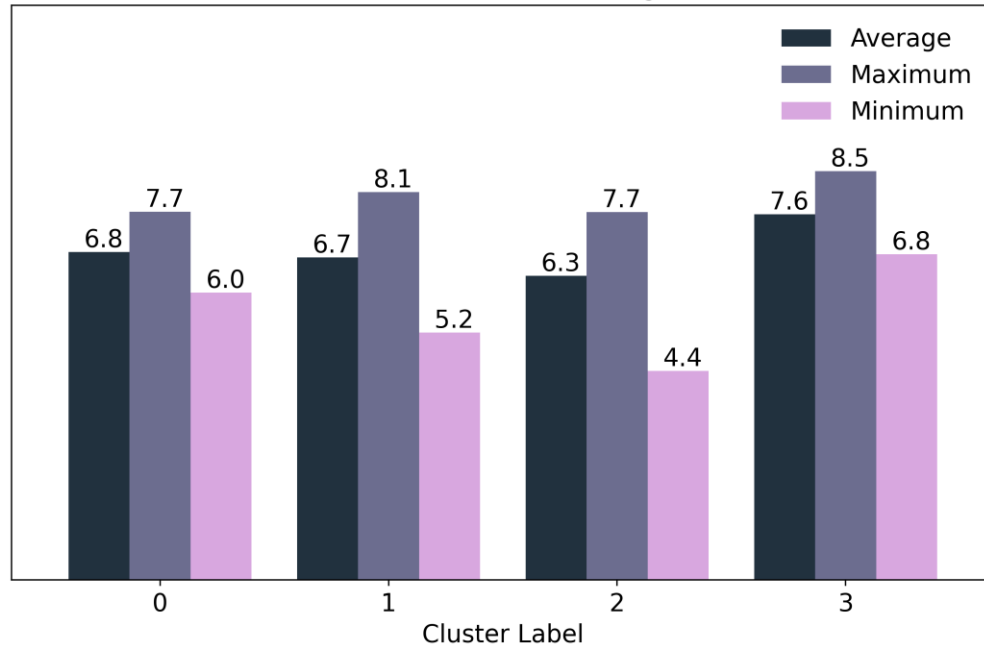
Programming language: Python

Libraries:

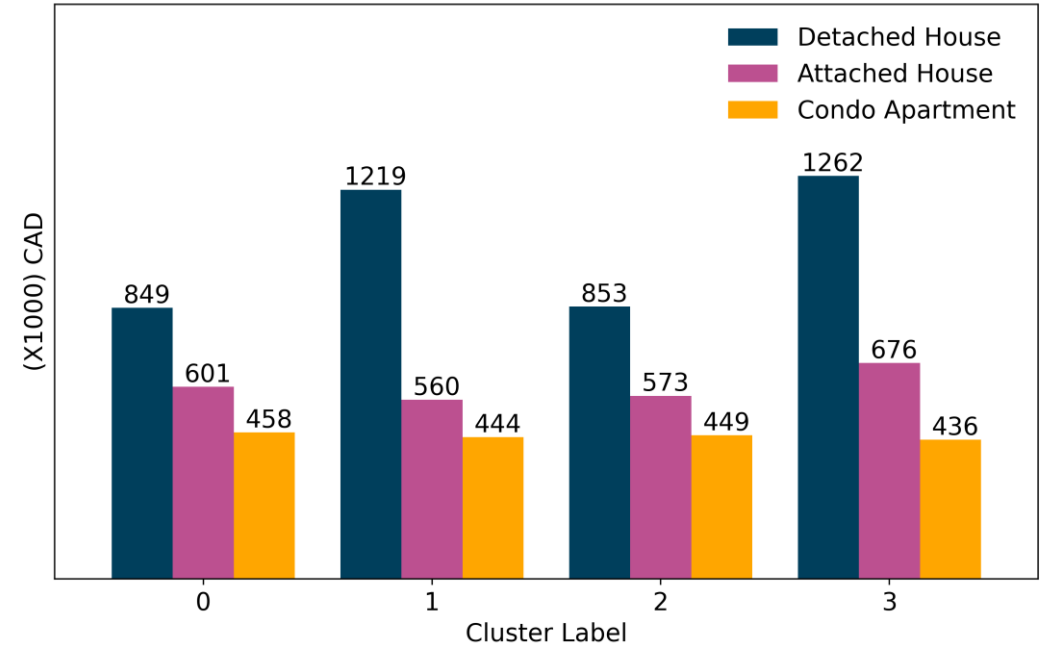
- BeautifulSoup (for web scraping)
- Numpy and Pandas (for data analysis)
- Matplotlib and folium (for data visualization)
- Scikit-learn (for K-Means clustering)



School Performance Score Over Each Neighborhood Cluster



Average House Over Each Neighborhood Cluster



Cluster 0: Central ,Corporate, Headon Forest, Mountainside, Palmer, Pinedale, Tansley, The Orchard

Cluster 1: Rural Burlington, Shoreacres, Tyandaga

Cluster 2: Aldershot, 'Brant Hills, Dynes, Elizabeth Gardens, Longmoor, Plains

Cluster 3: Alton Village, Millcroft, Roseland

