Finding a good neighbourhood

Subject to:- Scarborough, Toronto

Introduction

- This project answers the question, “Which neighbourhood is best suited to move in to?”
- When people are looking forward to move to a new location, people look for facilities such as connectivity to the rest of the city.
- While looking for a new place, Budget of an individual plays a very important role. A good place at a low price is very desirable. For this one has to keep in mind various points.
- In this project, we emphasize over two points:
- 1. Average Housing Price.
- 2. Quality of Schools
- Here, we consider that the individual is looking for a place in Scarborough, Toronto.

Data Acquisition

- Would be using the data from Wikipedia*.
- Link: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
- From this link, we firstly used ‘BeautifulSoup’ inorder to parse the data*. Further we separated only the Scarborough data as it the main dataset.
- Foursquare API was used to get information about the venue in specified radius.
- Folium was used to get the map of Scarborough (fig .1).
- Information regarding schools was obtained from https://www.greatschools.org

* Implies same as week 3

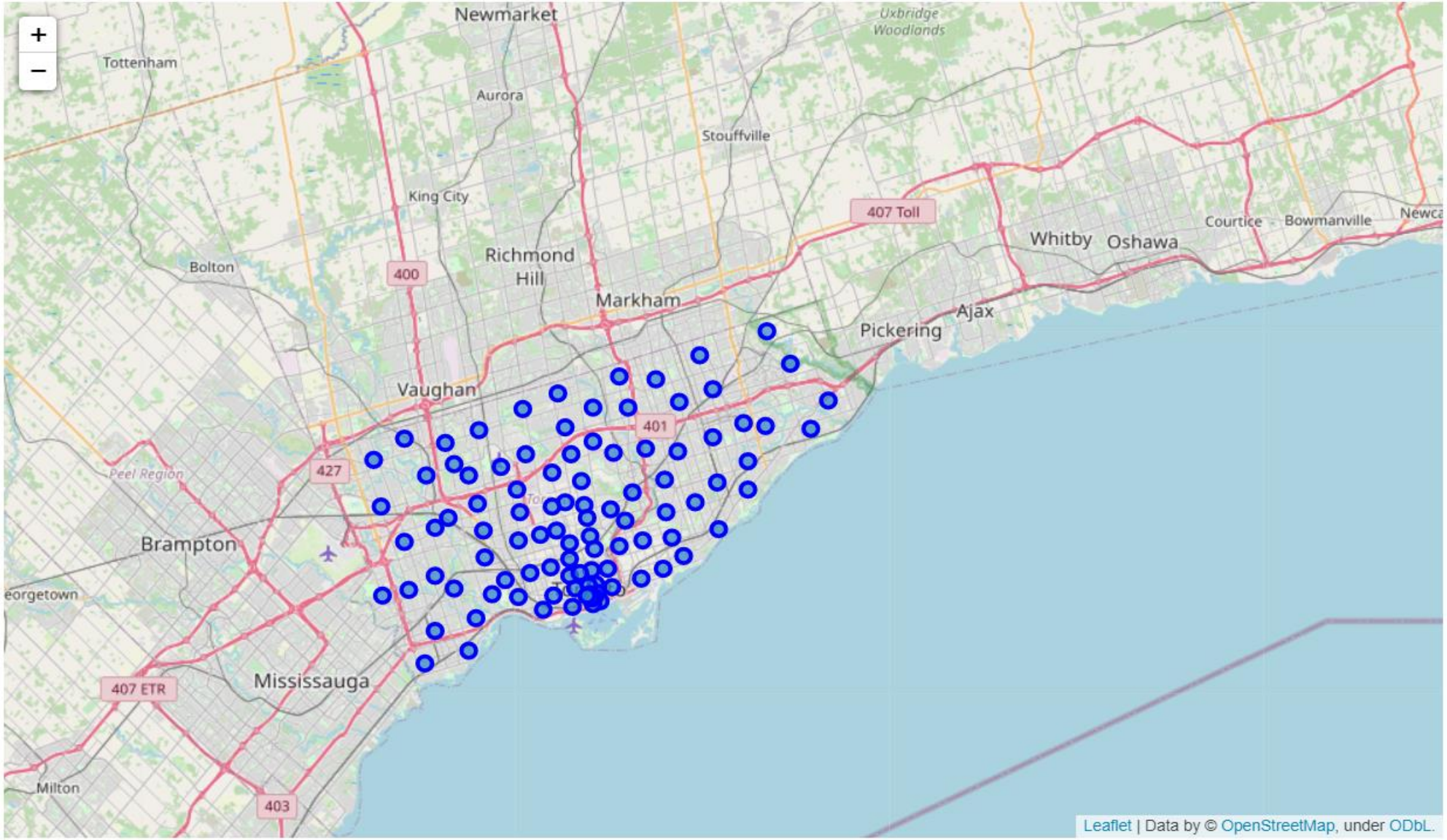
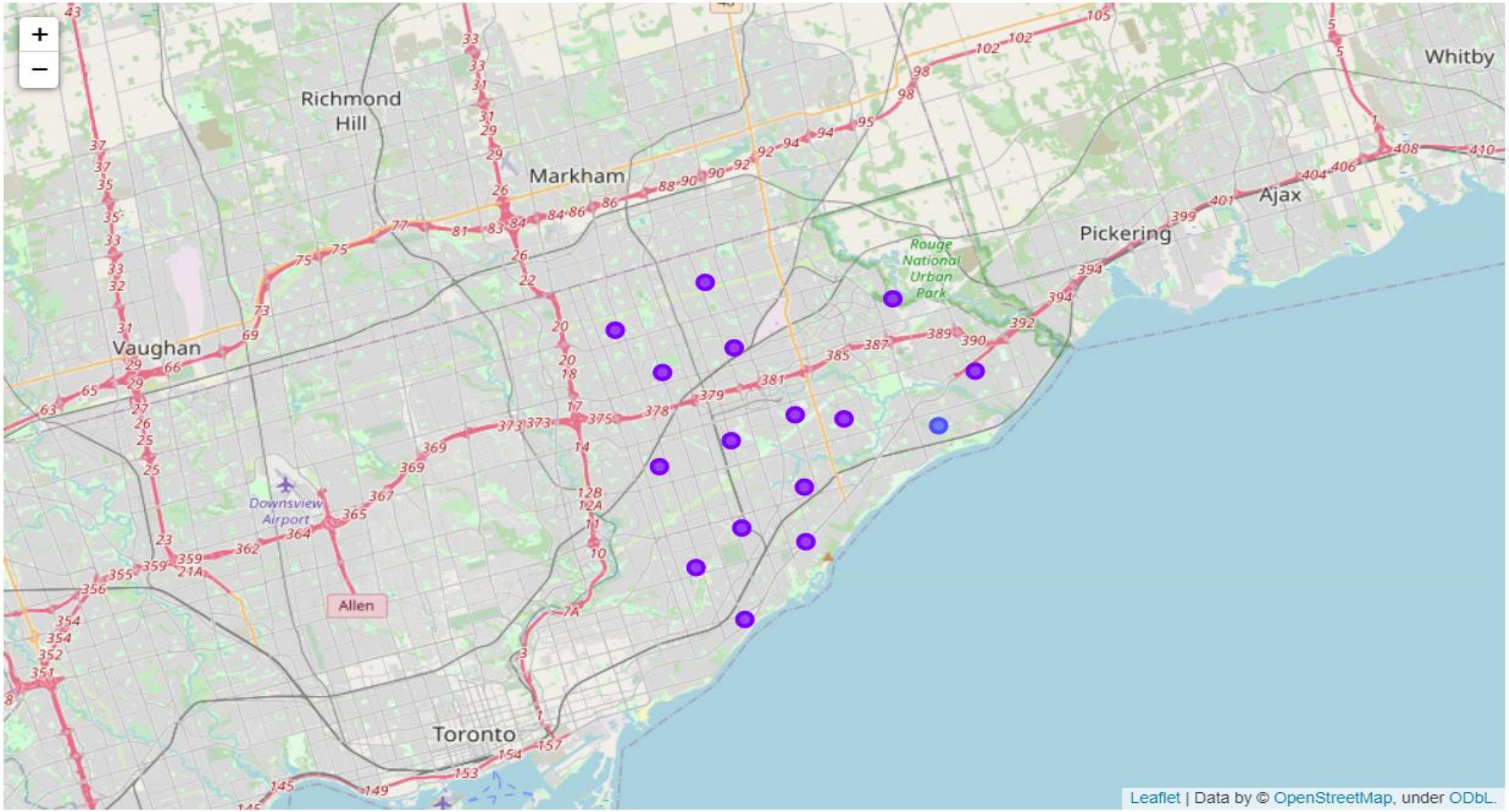


Fig.1 . Map of Scarborough

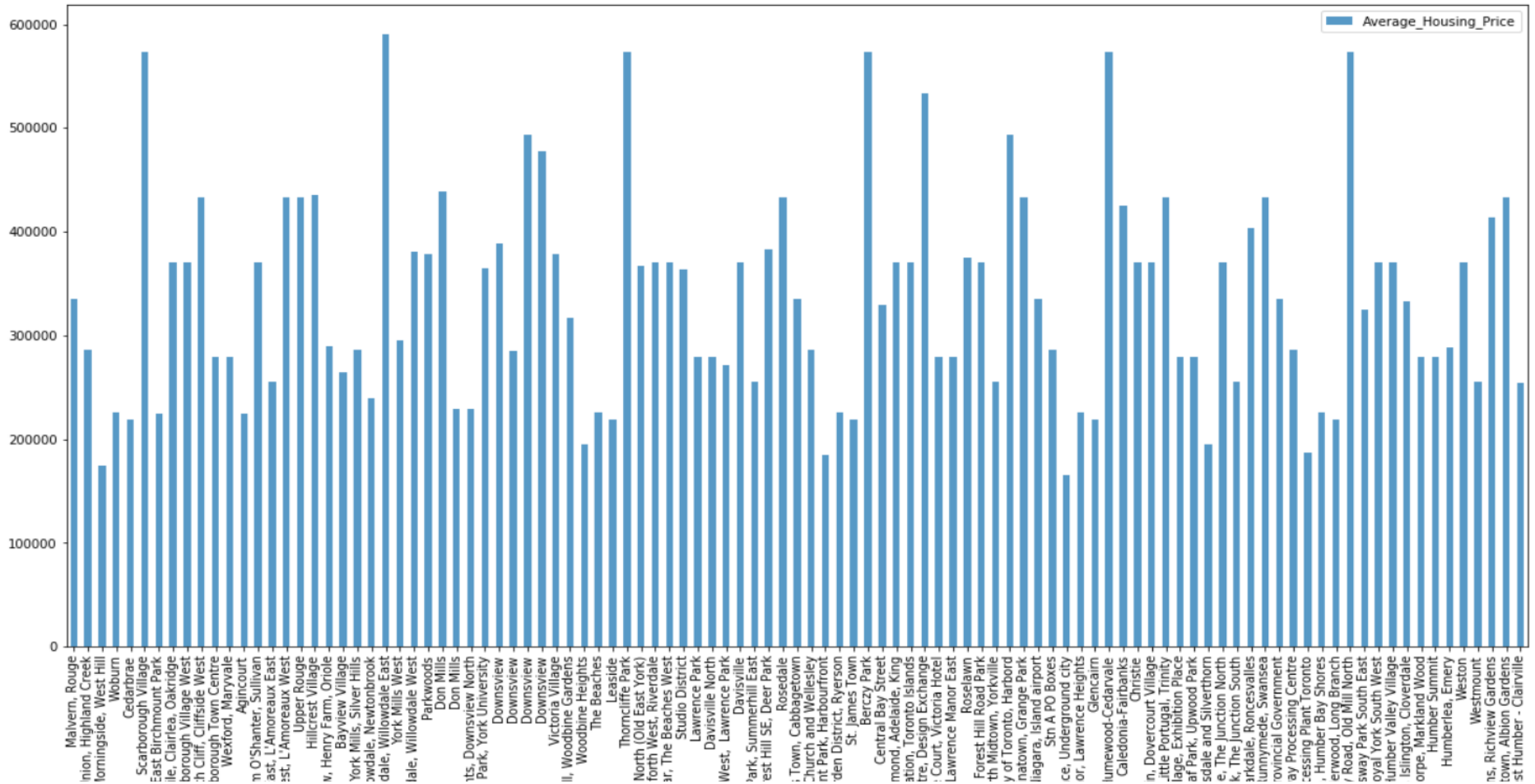
k-means clustering

- This is an iterative process, in which the centroids are updated after every iteration.
- In this example, k-means clustering is been used to get the neighbourhood with high level of amenities.

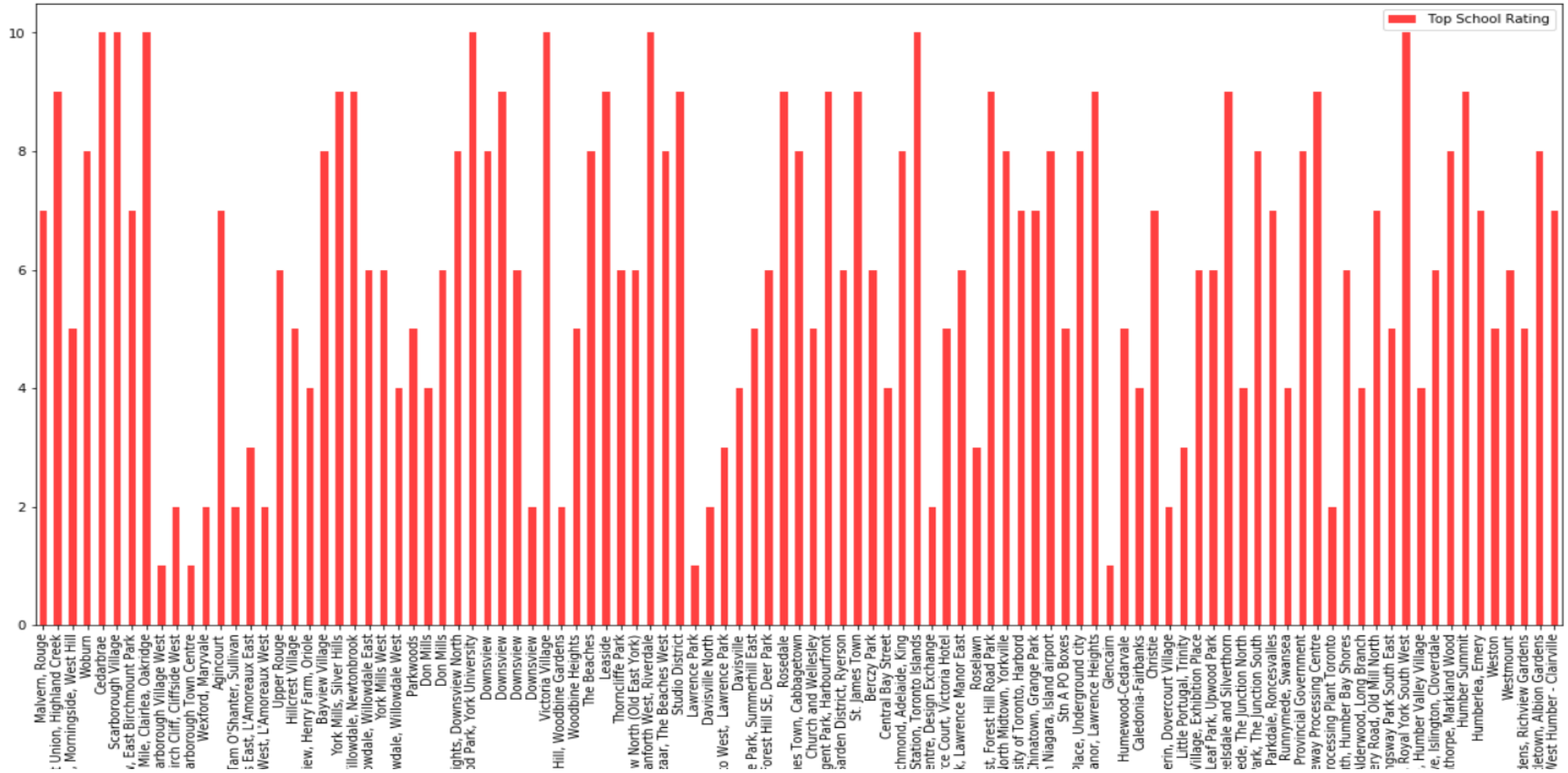


Map of clusters

Average housing Price.



Quality of Schools (Rating)



Conclusion

- Using the above process, we got the neighbourhoods which are preferable to move in to, based on the average housing price and quality of schools.