Strategic Location for Purchasing a Residential Property for Short-term Rent Out (Airbnb)

Amin Sehati January 1, 2021 0

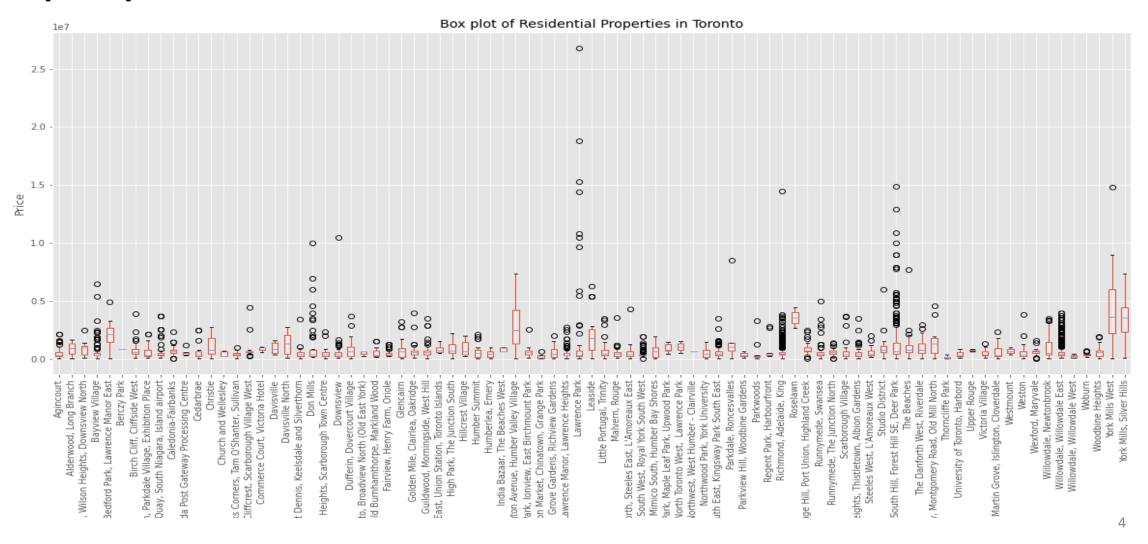
Strategic Location for Purchasing a Residential Property for Short-term Rent Out (Airbnb)

- Airbnbs are becoming more popular. They
 offer cheap short-term stay while
 providing the convinience of a complete
 property.
- A client is looking for the best neighbourhood to purchase a residential property to rent out as an Airbnb.
- Anyone with interest in short-term accommodation industry in Toronto could potentially benefit from this analysis. The main target audience, however, is those who seek cheap housing to purchase and rent out as an Airbnb.

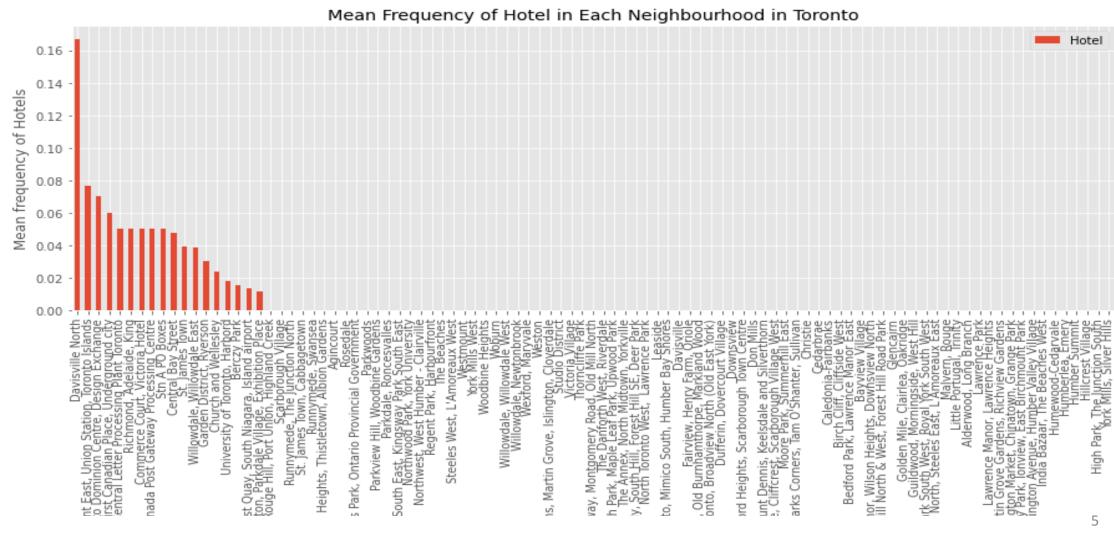
Data acquisition and cleaning

- To find out the price of residential properties in Toronto we use the data file provided in the following address which gives us the price, neighbourhood, and geocoordinates of many residentials properties in Toronto: https://www.kaggle.com/mnabaee/ontarioprope rties

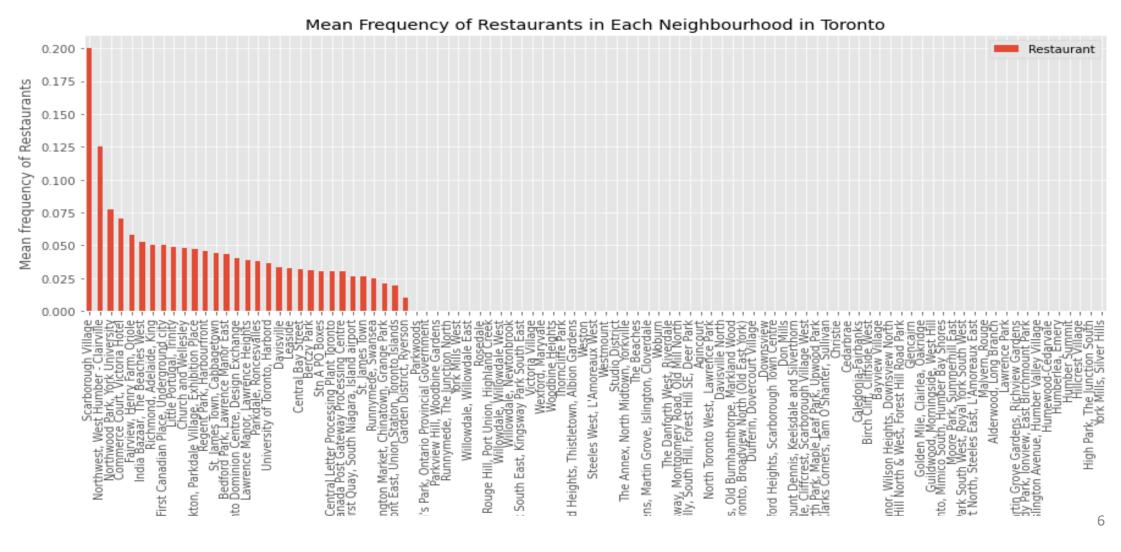
Representative value for price of residential properties

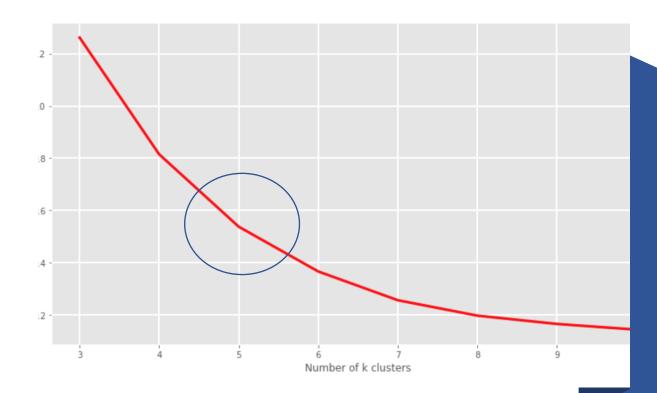


Mean Frequency of Hotel in Each Neighbourhood in Toronto



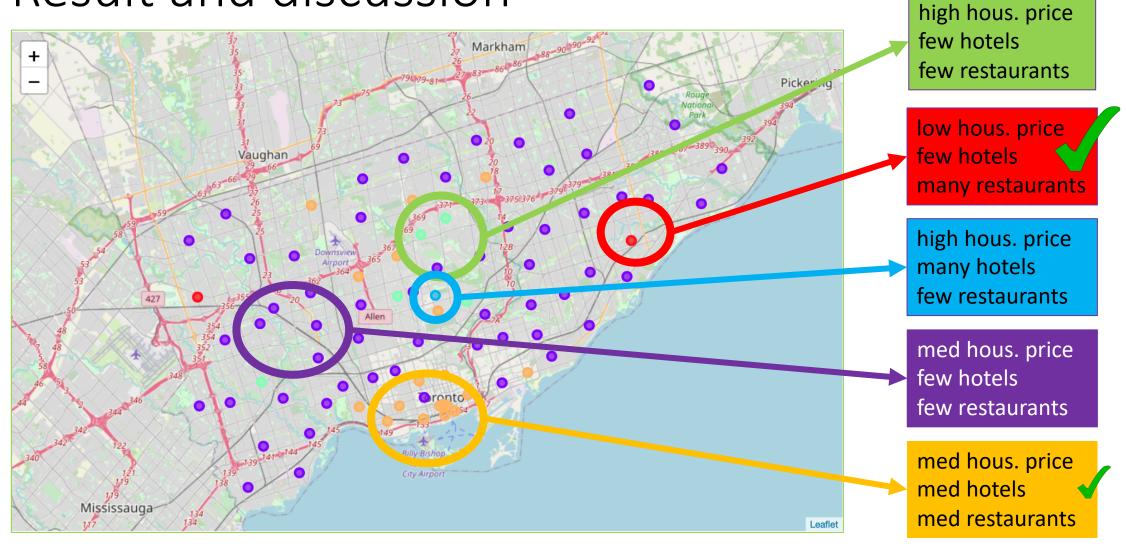
Mean Frequency of Restaurants in Each Neighbourhood in Toronto





Finding the optimal number of clusters (k)

Result and discussion



Conclusion and future directions

- the aim was to recommend the best neighbourhood for a client to invest in by purchasing a residential property to rent out as an Airbnb.
- assumed that the main decision criterion would be high number of restaurants in the vicinity of the property.
- there are two neighbourhoods Northwest and Scarborough Village are the first choices to consider.
- Since we used the housing price data from 2016, one could find a more recent data with more samples in order to find a more reliable data on the property values.
- our assumption of features was restricted to restaurants while it could be expanded to other categories such as park, museums, and coffee shops.
- Other methods of clustering can be explored too in order to find better cluster or number of clusters
- one could use scraping to extract the data of location and pricing from Airbnb in order to analyse the competition in more detail.