

The Battle of the Neighborhoods - The safest neighbourhood in Vancouver, Canada.

1.Introduction

As in any big city, Vancouver is a very safe city to visit and live. Personal safety is extremely high in Vancouver. However, property crime is very high. Thus, leaving any item unattended, you are risking it being stolen.

During the day the only area to be careful is the Downtown Eastside as this is an area with many underdeveloped properties and lower income individuals and families.

The aim of this project is to identify a safe and viable location in Vancouver which may help investors establish a commercial unit for business purposes. The first step is to choose the safest borough by analysing crime data and shortlisting a neighbourhood closest to the city of Vancouver, Canada.

2.Data

Factors influencing decision: finding the safest borough based on crime statistics, finding the most common venues, choosing the right neighbourhood within the borough.

Data set URL: <https://www.kaggle.com/agilesifaka/vancouver-crime-report/version/2>

3.Methodology

The methodology section is split in two parts

- a.Exploratory data analysis - visualization of crime reports in different boroughs in order to identify the safest areas of the city.
- b. Modelling - clustering neighbourhoods using k-means clustering.

4.Results and discussion:

The main objective of this project is to help investors identify the safest boroughs and neighbourhoods in Vancouver viable to set up a commercial unit. Analysing crime data in Vancouver helped to identify safe and viable commercial spaces. This was achieved by grouping the neighbourhoods into clusters to assist investors by providing them relevant data about safe areas of a given neighbourhood.

5. Conclusion

Data exploration has helped to understand the different types of crimes in all neighbourhoods across Vancouver. The neighbourhoods have been grouped into boroughs in order to easily identify the safest boroughs in the city. Neighbourhoods have been shortlisted based on common venues.

<https://github.com/DianaCociu/Capstone-Project-/blob/main/Capstone%20Project%20-%20The%20safest%20neighbourhood%20Vancouver%20Canada.ipynb>