**PART 1 Introduction**

**Background:**

The city of Toronto is the most popular city in Canada. People around the world have been attracted to be here. In 2007 Toronto has been awarded as the most safest city by economist magazine. However, we cannot overlook the uncovered side of this city. From the recent research, there is an increasing number of crime rate in Canada, even if crime in Toronto has been relatively average compared with other major cities. In this report, the topic regarding public safe, especially different types of crimes in Toronto, will be taken into consideration. The various neighborhoods in Toronto will also be explored. The insights derived from relevant data will provide readers a better understanding of public safety in Toronto which could help, for instance, to select the proper living area from nearly 170 neighborhoods.

**Business Problem:**

How many and what neighborhoods are shaped in Toronto?

What is the population density in each neighborhood?

The number of the different type of crime risks in 2019 from all neighborhoods

Which kind of neighborhoods are classified with similar crime risks?

**Target Audience:**

The purpose of this project is to help me to get a good understanding of the situation of public safety in 2009 in Toronto. Through the comparison of all neighborhoods, the different crime risks will be detected, which support people for further decisions. For instance, to investigate behind what caused the high risks in the specific area, to find the safest neighborhood, or to take the effective measures to avoid the crime cases happening again.

**PART 2**

Toronto police service public safety data portal

<https://opendata.arcgis.com/datasets/af500b5abb7240399853b35a2362d0c0_0.geojson>

The data set contains Toronto’s neighborhoods, population, the types of crime risks (including assault, auto theft, break and enter, robbery), area size, longitude and latitude.

Table

Description automatically generated

The venues in the neighborhoods will be provided with the input of Toronto geographical coordinated by Foursquare API.

A picture containing table

Description automatically generated