Project Name: **Toronto Police Major Crime Data Analysis**

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Description: This project aims to leverage various datasets and APIs from the Government of Canada and Toronto Police Service to analyze the incidence of crime in Toronto from 2016-2021. This project will be answering the following questions:

**Part 1: 2016-2022**

* The evolution of crime in general and by categories of crime throughout the years (before and after the pandemic)
* Distribution of crime over the year (trends by months)
* Most common categories of crime (e.g. Assault, Auto Theft..)
* Months of the year with highest number of crime
* Safest and most dangerous neighborhoods in 2022

**Part 2: 2016 & 2021**

* How the incidence of crime varies with certain weather conditions (mean daily temperature, total rainfall, snowfall, etc.)
* Correlation between crime and age/gender

Resources:

* Toronto Police- Major Crime Indicators API: <https://data.torontopolice.on.ca/pages/major-crime-indicators>
* Toronto Police- Victim of Crime API: <https://data.torontopolice.on.ca/datasets/TorontoPS::victims-of-crime-asr-vc-tbl-001/explore>
* Government of Canada Canadian Centre for Climate Services API
  + <https://climate-change.canada.ca/climate-data/#/daily-climate-data>

Breakdown of Tasks:

* Data retrieval and cleaning : all
  + Toronto Police Major Crime Indicators API/CSV: Hicham
  + Toronto Police Victim of Crime API: Rita
  + Climate Data API: Aliha
* Analysis and visualization of data using Pandas:
  + Part 1: Hicham
  + Part 2: Aliha (crime and weather) and Rita (crime and age/gender)