**Project 3 Group\_4:**

**Proposal**

**Topic:** How a country’s macroeconomic indicators affect Immigration to Canada

**Objective:**

* To visualize and explore different country macroeconomic indicators and assess whether or not it is a good indicator for immigration to Canada
* To analyze how GDP impacts immigration rates to Canada from different countries.
* To identify trends and correlations between economic strength (measured by GDP) and immigration flows.
* To present insights visually and dynamically for better interpretation and decision-making.

**Datasets:**

* [**Canadian Immigration Data**](https://open.canada.ca/data/en/dataset/f7e5498e-0ad8-4417-85c9-9b8aff9b9eda?_gl=1*grdov7*_ga*NzEwODc5NDc1LjE3Mjg0MzUxNTc.*_ga_S9JG8CZVYZ*MTczNDM5NzUyOS4xLjEuMTczNDM5ODA2NC4yOS4wLjA)

Canadian Immigration Data: Data from Immigration, Refugees and Citizenship Canada (IRCC) providing historical immigration statistics (between 2015 and 2024)

* [**World Bank API**](https://api.worldbank.org/v2/country/%7Bid%7D/indicator/SP.POP.TOTL?date=2019:2023&format=json)

World Bank API: macroeconomic indicators data (annual basis) sourced from the World Bank to ensure accurate and up-to-date global economic data.

**Tools & Technologies:**

* Python : extract, clean and transform the data
* Database: PostgreSQL for storing and querying large datasets.
* Backend: FlaskAPI for serving data dynamically.

**Ethical Considerations:**

Data will be sourced from reputable organizations and every step will be taken to avoid bias in the data as much as possible so that the conclusions are fair.