Project 3 – Group 2

**Interactive Dashboard ECO-POP
To Explore & Analyze Economic
& Population Indicators**

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Aim:

To investigate the correlation between the economic indicators and the population indicators for countries and subregions/continents using interactive dashboard

Data Sources:

1) Economic Indicators (GDP) – World bank
2) Population Indicators (Census) – UN census data
3) Longitude & Latitude of Countries – Open Source

Live demo of dashboard ECOPOP:

According to various theories & studies, the economic prosperity and the wellbeing are positively correlated.
For visualization of these studies/theories we created an interactive dashboard named ECOPOP

1) Country Visualization
- To study the economic Vs the population indicators for two countries simultaneously
- To study the rankings of the countries for various indicators

2) Sub-region Visualization
- To study the economic Vs the population indicators for subregions

3) Geographical Visualization
- To understand geographic locations of different countries for comparative population analysis

Limitations:

- The census and GDP data covers the period of 1960 – 2021, for certain countries data may not be accurate.

- During the data cleaning process, smaller countries which had did not have consistent GDP and population data for every year was dropped from the set presented

- For ease of navigation, specific sets of certain of health data was selected for the drop down options

Conclusion:

1) A broad conclusion can be drawn that economic prosperity brings better standards of living

2) Exceptions can be observed due to local conditions like government policies, natural calamities, wars, social/cultural/religious/ethnic beliefs

3) General trends can be observed for group of countries or subregions

Future prospects:

- A study can be extrapolated using different models to predict future of various indicators

- Different plots and indicators can be added to give robust understanding of the subject

Thank you !

DATA SOURCES

- Population data United Nations Data Portal Population Division <https://population.un.org/wpp/Download/Standard/MostUsed/>

- GDP from World Bank data <https://data.worldbank.org/indicator/NY.GDP.MKTP.PP.CD?end=2022&start=1990&view=chart>

- lat & long data from Developers Dataset <https://developers.google.com/public-data/docs/canonical/countries_csv>

- Js Library list <https://kinsta.com/blog/javascript-libraries/>