

Project Title:

The Economic Impact of Higher Education Across Europe: A Data-Driven Visualization

Group Name - The Storytellers

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Github Repo : https://github.com/Clonecodesash/Storytellers-DataVis-Final_Project

Story and Focus:

The core story of the project will explore how higher education influences various economic factors, such as employment rates, income, across different European countries. We plan to examine:

- The correlation between educational attainment and income levels.
- The employment rates of individuals with different levels of education.
- The impact of higher education on national economic productivity and workforce participation.
- Geographical and regional disparities in the economic outcomes of higher education.

The goal is to provide a clear, visual representation of the economic benefits of higher education and how this varies by country, education level, and other factors.

Datasets from Eurostat:

To build the visualizations, we will use the following datasets from Eurostat:

1. **Education and training:** Levels of educational attainment across European countries (e.g., percentage of the population with tertiary education).
2. **Employment and income:** Employment rates, wages by educational level, and unemployment rates.
3. **Labour market participation:** Data showing workforce participation rates by education level.
4. **Economic productivity:** Data on GDP per capita, labor productivity by educational attainment.
5. **Poverty and social exclusion:** Income inequality and poverty rates by education level.

These datasets will be used to create a variety of visualizations that highlight the economic impact of education on individuals and societies.

List of Visualizations:

The project will consist of **ten distinct visualizations** that convey various aspects of the economic impact of higher education:

1. **Choropleth Map:** Displaying the percentage of people with tertiary education across European countries.
2. **Bar Chart:** Comparing the average income of individuals with primary, secondary, and tertiary education across countries.
3. **Scatter Plot:** Showing the correlation between educational attainment and national GDP per capita.
4. **Stacked Area Chart:** Depicting employment rates over time for individuals with different education levels across Europe.
5. **Line Chart:** Comparing labor market participation rates over time for people with different levels of education.
6. **Bubble Chart:** Visualizing the relationship between educational attainment, employment rate, and income level by country (with size representing GDP).
7. **Network Graph:** Representing how educational attainment, income, and employment interact across countries and regions.
8. **Stacked Bar Chart:** Breaking down income inequality by educational attainment in different European regions.
9. **Heatmap:** Comparing the unemployment rate by education level and country, showing regional patterns.
10. **Pie Chart:** Illustrating the distribution of workforce participation by educational attainment for a selection of countries.

Datasets

https://ec.europa.eu/eurostat/databrowser/view/edat_ifse_04/default/table?lang=en&category=reg.reg_educ.reg_educ

https://ec.europa.eu/eurostat/databrowser/view/earn_ses22_04/default/table?lang=en&category=labour.earn.earn_ses2022.earn_ses2022_nb

https://ec.europa.eu/eurostat/databrowser/view/lfsa_egaed/default/table?lang=en&category=labour.employ.lfsa.lfsa_emp

https://ec.europa.eu/eurostat/databrowser/view/nama_10r_2gdp/default/table?lang=en&category=reg.reg_eco10.reg_eco10gdp

https://ec.europa.eu/eurostat/databrowser/view/nama_10r_2hhinc/default/table?lang=en&category=reg.reg_eco10.reg_eco10brch

https://ec.europa.eu/eurostat/databrowser/view/ilc_lvho01/default/table?lang=en&category=degurb.degurb_livcon