

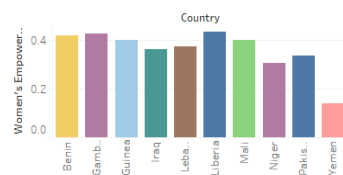
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<b>Dept &amp; Batch</b>	CSE-AIML
<b>Experiment No.</b>	9

<b>AIM:</b>	Design Big Data Dashboard using Tableau on dataset -Women empowerment / Gender participation
<b>Dataset:</b>	<p><b>Country:</b> The name of the country or territory included in the dataset.</p> <p><b>Women's Empowerment Index (WEI) - 2022:</b> Quantifies women's empowerment within each country for the year 2022, offering insights into gender dynamics and opportunities for women.</p> <p><b>Women's Empowerment Group - 2022:</b> Categorizes countries based on their performance and status regarding women's empowerment, facilitating comparative analysis.</p> <p><b>Global Gender Parity Index (GGPI) - 2022:</b> Measures gender parity at a global level for the year 2022, indicating the degree of equality between men and women.</p> <p><b>Gender Parity Group - 2022:</b> Classifies countries into groups based on their level of gender parity, aiding in the identification of trends and disparities.</p> <p><b>Human Development Group - 2021:</b> Classifies countries into specific groups based on their Human Development Index (HDI) scores and development levels for the year 2021.</p> <p><b>Sustainable Development Goal regions:</b> Aligns countries with specific regions as defined by the Sustainable Development Goals (SDGs), providing context for development efforts and initiatives.</p>

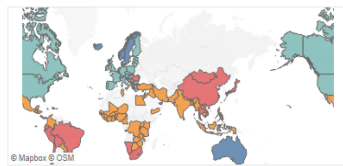
Link: <https://www.kaggle.com/datasets/iamsouravbanerjee/women-empowerment-index/data>

## Charts/ Dashboard:

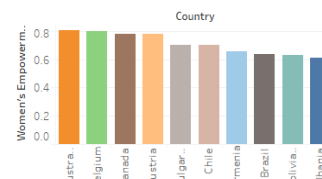
Top 10 Countries with Low Women Empowerment



Women's Empowerment Index: Global Income-Based Analysis



Top 10 Countries with High Women Empowerment



Proportion of High and Low Women Empowerment



Country

- Benin
- Gambia
- Guinea
- Iraq
- Lebanon
- Liberia
- Mali
- Niger
- Pakistan
- Yemen

Women's Empowermen..

- High
- Low

Global Gender Parity In..

37.72

### 1. Bar Chart (Top Left): "Top 10 Countries with Low Women Empowerment"

- Shows countries like Yemen, Pakistan, Niger, and others with lowest WEI scores
- The y-axis shows WEI values around 0.2-0.4 range
- Helps identify which countries need most improvement in women's empowerment

## 2. Bar Chart (Top Right): "Top 10 Countries with High Women Empowerment"

- Shows countries like Austria, Belgium, and others with highest WEI scores
- The y-axis shows WEI values around 0.6-0.8 range
- Highlights countries with better women's empowerment practices

## 3. World Map (Bottom Left): "Women's Empowerment Index: Global Income-Based Analysis"

- Color-coded based on income categories:
  - \* High income (Light blue)
  - \* Upper-middle income (Medium blue)
  - \* Lower-middle income (Orange)
  - \* Low income (Red)
- Provides geographical distribution of women's empowerment levels

## 4. Pie Chart (Bottom Right): "Proportion of High and Low Women Empowerment"

- Shows aggregate distribution:
  - \* Blue slice: Represents proportion of countries with high women empowerment
  - \* Orange slice: Represents proportion of countries with low women empowerment
- The larger orange portion indicates that majority of countries still have

	<p>low women empowerment scores</p> <p>Key Insights from this Dashboard:</p> <ol style="list-style-type: none"> <li>1. There's a significant global disparity in women's empowerment</li> <li>2. Developed/high-income countries generally show better women's empowerment scores</li> <li>3. Many developing nations, particularly in Africa and parts of Asia, show lower scores</li> <li>4. The majority of countries globally still fall in the lower women's empowerment category</li> <li>5. There's a clear correlation between a country's economic status and its women's empowerment index</li> </ol> <p>This visualization effectively shows both the geographical and statistical distribution of women's empowerment globally, highlighting both progress and areas needing improvement.</p>
<b>CONCLUSION</b>	<p>In conclusion, this Big Data Dashboard on "Women Empowerment " provides an insightful overview of gender equality metrics, including the Women's Empowerment Index (WEI), Gender Parity Index (GPI). Interactive charts reveal regional disparities, with high-income regions generally showing higher empowerment scores, while lower-income regions have more room for improvement. The dashboard highlights a positive link between economic development and gender parity, suggesting that women's empowerment contributes to societal progress. By tracking these metrics over time, the dashboard helps identify where targeted interventions in education, employment, and political participation could make the most impact, supporting global efforts toward achieving gender equality.</p>