Youth Unemployment in the IT Sector



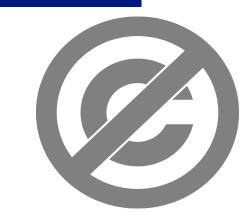
- Work: Research Scholar @ilabAfrica
- Aspirations: Leverage data science to uncover insights
- Passion for Data Science: Believe in its power to drive positive change through applying data-driven approaches



Research Scholar - Lindah Kelida 25 August 2023

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Problem Statement

- A hackathon to address the pressing issue of youth unemployment in the IT sector.
- Using data science techniques to uncover insights related to youth employment in Kenya's IT sector.

Methodolgy

Structured Approach:

Data Collection, Preprocessing,

EDA, Visualization

Tools and Techniques:

Python, Plotly, Streamlit

Dashboard Deployment:

Interactive Visualization











Data Selection & Preprocessing

Data Cleaning and Merging Derived metrics, like

Derived metrics, like unemployment rates and shares, were calculated to provide additional context for the analysis

Feature Engineering

Creating new variables from the abs_value column



Variable Selection

Country, age group, sex, year, population, employment categories, and education levels for analysis

Data Transformation

Derived metrics, like unemployment rates and shares, were calculated to provide additional context for the analysis

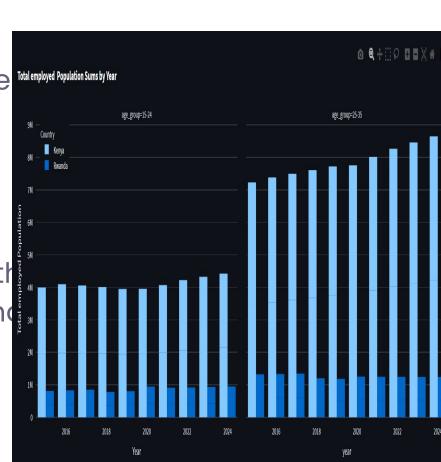


Results

- Interactive Dashboard: Showcase employment, education, and demographic trends. Link: Youth

 Unemployment Dashboard
- Unemployment Insights:
 Unemployment rates among youth across different demographics and time periods.
- Education Impact:

the impact of education levels on employment outcomes within the





Findings and Insights

- **Employment Trends:** The analysis reveals a consistent increase in youth employment rates within the IT sector over the years.
- **Gender Disparities:** Findings indicate significant gender disparities, with males being more represented in the workforce than females.
- Comparative Analysis: Comparing Kenya and Rwanda's employment trends uncovers shared regional patterns and slight differences in unemployment rates and education distributions.



Recommendations, Impact, & Contributions



- Stakeholder Recommendations: Recommendations include promoting STEM education, aligning curriculum with industry demands, and implementing diversity initiatives.
- **Potential Impact:** Implementing these recommendations can lead to enhanced youth employability, gender equality, and a more skilled IT workforce.
- Project Contributions: The project's contributions
 encompass comprehensive analysis, an interactive
 dashboard, actionable recommendations, and data-driven
 decision-making.



Thank You!

Any questions?

