UNIVERSITY OF RWANDA

NYAGATARE CAMPUS

BIG DATA ANALYSIS IN DATA SCIENCE REPORT CARRIED OUT BY STUDENTS IN UNIVERSITY OF RWANDA AT NYAGATARE CAMPUS.

Submitted in partial fulfillment of the requirement for the award of NATIONAL STATISTIC **INSTITUTE OF RWANDA (NSIR)**

Submitted by

Name;   1. **UKURIKIYIMFURA VICTORIEN   (TEL; +250782601446**

   2. **TURAHIMANA SAMUEL   (TEL; +250780673582)**

Submissions are video file , theory file , README FILE and actually file.

Submission for HACKATHONS and INFOGRAPHIC competition prepared by NSIR

RWANDA LABOR FORCE STASTISTIC

This project analyzes labor market statistics using data visualization techniques with **Matplotlib in Python**. The data is presented in various charts and graphs to provide insights into different aspects of the labor market.

 Contents

1. <u>Population and Labor Statistics of Both Sexes</u>

This section presents a histogram illustrating the working age population, labor force, employed, unemployed, and those out of the labor force for both sexes. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

2. <u>Population and Labor Statistics by Gender</u>

This section provides a grouped bar graph that separates the population and labor statistics by gender, using different colors for males and females. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

3. <u>**Population and Labor Statistics by Area of Residence**</u>

The data is visualized in a grouped bar graph, distinguishing between urban and rural areas using different colors. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

4. <u>**Subsistence Agriculture Participation**</u>

This section displays a grouped bar graph showing participation and non-participation in subsistence agriculture. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

5. <u>Labor Market Statistics</u>

A horizontal bar chart is presented with various labor market statistics, including the labor force participation rate, unemployment rate, and more. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

6. <u>Labor Market Statistics by Area of Residence</u>
This section displays a horizontal grouped bar chart with labor market statistics categorized by area of residence (urban and rural). For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

7. <u>Labor Market Statistics by Participation in Subsistence Agriculture</u>

The final section visualizes labor market statistics based on participation and non-participation in subsistence agriculture. For detailed information, including codes, descriptions, and visualizations, refer to the corresponding

Codes

Descriptions

Visualizations

This project employs **Matplotlib in Python for data visualization**, aiming to analyze various aspects of labor market statistics. The project includes multiple visualizations presenting insights into population and labor dynamics, categorized by sex, area of residence, and participation in subsistence agriculture, what you have to know this project was used done in **jupyter dashboard**

References

NSIR REPORT 2023