**ANALYSIS OF STUDENT-TEACHER** **PERFORMANCE IN INFORMATION TECHNOLOGY ACROSS SUB-SAHARAN AFRICA**

The goal of this project is to improve the quality of Information Technology (IT) education in Sub-Saharan Africa by assessing student-teacher performance, identifying challenges, and proposing effective strategies for enhancing IT learning outcomes and bridging the digital divide.

This goal encompasses the broader objective of achieving SDG 4 (Quality Education) by focusing specifically on IT education in Sub-Saharan Africa.

**Planning Process**

* Data Understanding
* Data Cleaning
* Data Analysis
* Data Visualization
* Presentation

The visualization captures the following:

* Number of Countries - 32
* Number of Sub-Regions - 13
* Number of Participants - 772
* Institution Types - 2
* Also, about 95% of the total record have in one way or the other used some simple computer functions.

**Population of Participants and Adaptivity Level**

* Teachers have the highest population of 56.2% compared to the students, which is 47.8%.
* The adaptivity level for teachers in their occupation is 52.99%, indicating a relatively high level of adaptability than students (47.01%).

**Occupation by Country and Development**

* The country, occupation and development chart shows that Liberia which is categorized as one of the less developed countries has the highest participants.
* The occupation by country chart shows the top 10 countries out of 32; with the highest exposure making Liberia the lead.

**Adaptivity Level**

* The male adapted more to technology compared to their female counterpart.
* The level of adaptivity across occupation chart shows 36.94% high, 41.42% low, and 21.64% moderate adaptivity to technology.

**Project Limitation**

* A key challenge encountered in the project "Analysis of Student-Teacher Performance in Information Technology across Sub-Saharan Africa" is the limited availability of sufficient data; getting comprehensive and accurate data across multiple countries or regions in Sub-Saharan Africa can be a complex and time-consuming task.
* This challenge hinders the ability to conduct a comprehensive analysis of student-teacher performance in IT education and can impact the reliability of the findings and recommendations.

**Conclusion**

* There are more male participants in IT than female.
* Teachers have more adaptivity level than the students.
* Liberia has the highest adaptivity level.

**Recommendations**

* Africa needs to have more record for IT performance.
* There is a need for sensitization on IT in the sub-Saharan Africa.
* More female participation in IT should be encouraged through organizations that gives them the opportunity to participate in IT trainings.