AI IN KENYAN EDUCATION

EXPLORING THE POTENTIAL, ADDRESSING THE CHALLENGES, AND LEVERAGING THE TOOLS: PERCEPTIONS AND UNDERSTANDING

PRESENTED BY A. WAWERU



INTRODUCTION



- Artificial intelligence (AI) is rapidly transforming the education sector around the world, and Kenya is no exception.
- AI has the potential to improve learning outcomes, personalize education, and make education more accessible to all.
- However, there are also challenges that need to be addressed in order to fully realize the potential of AI in Kenyan education.
- In this presentation, we will explore the potential of AI in Kenyan education, address the challenges, and discuss the tools that are being used to implement AI in Kenyan schools.
- We will also discuss the perceptions and understanding of AI among Kenyan educators and learners.

UNESCO'S COMMITMENT TO AI IN EDUCATION

unesco

Kenya
National Commission

Human-Centered Approach:

- Focus on addressing inequalities in access to knowledge and cultural diversity.
- Aim to prevent widening technological divides within and between countries.

Publication: AI Policy Guidance

- "Artificial Intelligence and Education: Guidance for Policy-makers."
- Aims to foster a shared understanding of AI's opportunities and challenges in education.

Objective: Education Readiness for AI Era

- Targets policymakers and education professionals.
- Aims to equip with insights on AI's implications for education's core competencies.

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AIED IN KENYA: GOVERNMENT INITIATIVES



The Kenya National Digital Master Plan 2022 to 2032

National AI Strategic Plan:
The long-term transformative effects of AI on the Kenyan economy and service delivery.



THE POTENTIAL OF AI IN KENYAN EDUCATION

- AI can be used to personalize learning by providing students with individualized instruction and feedback.
- AI can also be used to make education more accessible to all by providing students with access to high-quality learning materials and support, regardless of their location or socioeconomic background.
- AI can also be used to improve learning outcomes by providing students with opportunities to practice their skills and receive feedback in real time.



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THE CHALLENGES OF AI IN KENYAN EDUCATION



Awareness

There is a lack of awareness and understanding of AI among Kenyan educators and learners.

Capacity

There is a shortage of qualified AI professionals in Kenya.

Data privacy and security concerns.

Ethical considerations and biases in AI algorithms.

Infrastructure& Resources

There is a lack of infrastructure and resources to support the implementation of AI in Kenyan schools.

THE TOOLS THAT ARE BEING USED TO IMPLEMENT AI IN KENYAN SCHOOLS

A number of tools are being used to implement AI in Kenyan schools, including:

- **Adaptive learning platforms**
- **Intelligent tutoring systems**
- **Automated assessment tools**
- **Virtual reality and augmented reality**





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THE PERCEPTIONS AND UNDERSTANDING OF AI AMONG KENYAN EDUCATORS AND LEARNERS

A Research by A. Waweru

In a recent study, I found that Kenyan Teachers are generally positive about the potential of AI in education.

However, the study also found that Kenyan Teachers have a limited or no understanding of AI and how it can be used in the classroom.

Kenyan students also have a generally positive attitude towards AI in education.

However, Kenyan both students and teachers have concerns about the potential for AI to be used to replace teachers.

CASE STUDY 1

M-Shule: AI-driven Tool for adaptive learning

M-Shule is an SMS knowledge-building platform that helps organisations deliver Learning,

M-Shule

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CASE STUDY 2

Angaza Elimu



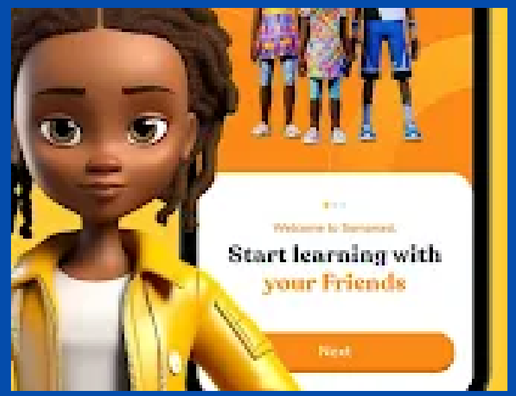
Angaza Elimu
Elevating the Classroom Experience

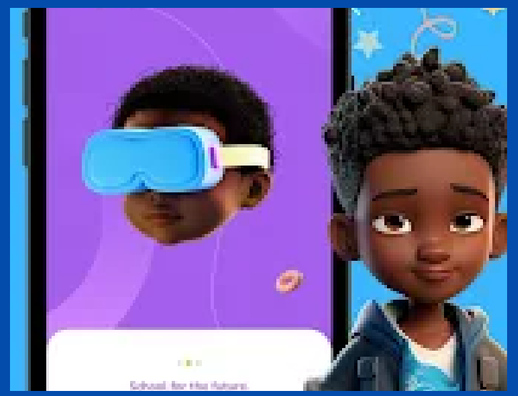


Angaza Elimu is a UNICEF-funded eLearning platform that uses AI to provide students with a personalized learning experience. The platform uses adaptive learning algorithms to assess students' individual needs and provide them with customized learning materials and support. Angaza Elimu has been shown to improve student learning outcomes in a number of studies.

CASE STUDY 3

eKitabu Peronalised Learning Tool





KYTABU somanasi

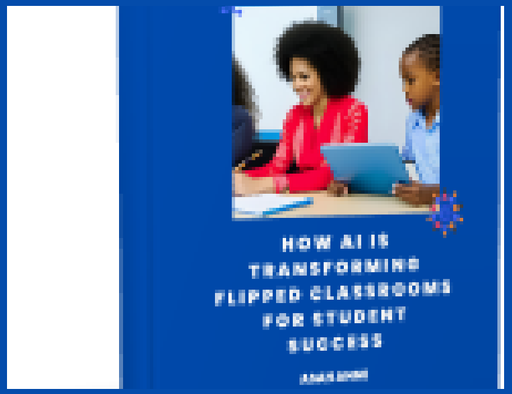
SOMANASI: Personal Tutoring Tool for Students in Kenya. Students take tests from past KCPE and KCSE exams and receive immediate feedback on their performance

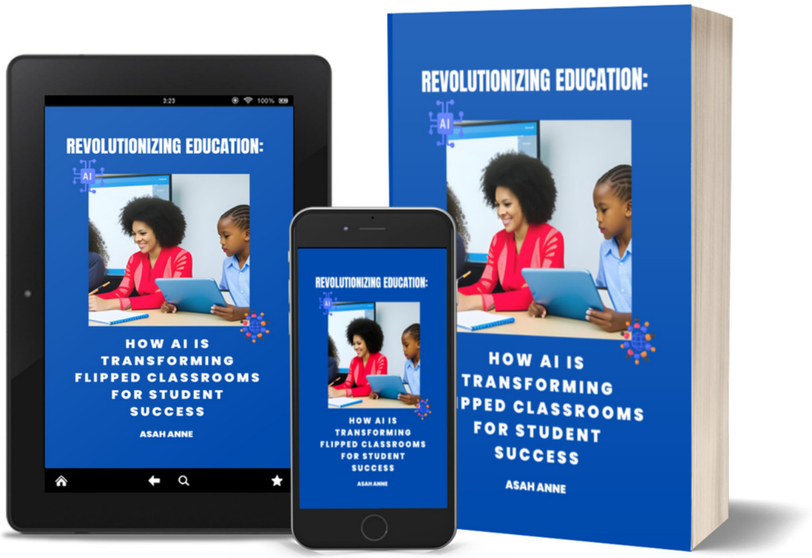
CASE STUDY 4

Revolutionizing Education: How AI is Transforming Flipped Classrooms for Student Success

By Asah Anne







The goal of personalized learning is to adjust the educational process to meet the requirements of each individual learner. In this ground-breaking study, Asah Anne examines the topic of AI-powered education using her vast expertise in both education and digital transformation.

The Advantages of Using AI in Flipped Classrooms

Personalized Education

Adaptive Evaluations

Personalized tutoring

Improved Collaboration

Analysis of Data

CASE STUDY 5

Bridge International Academies: AI for tracking student progress and personalized recommendations.

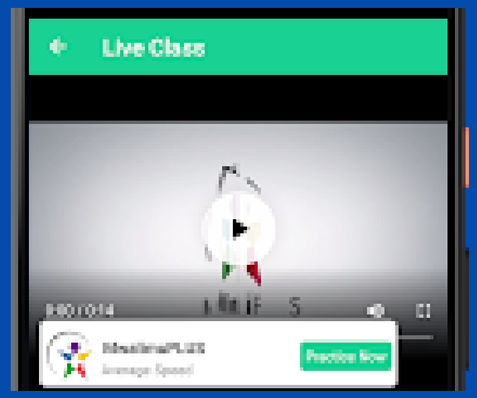


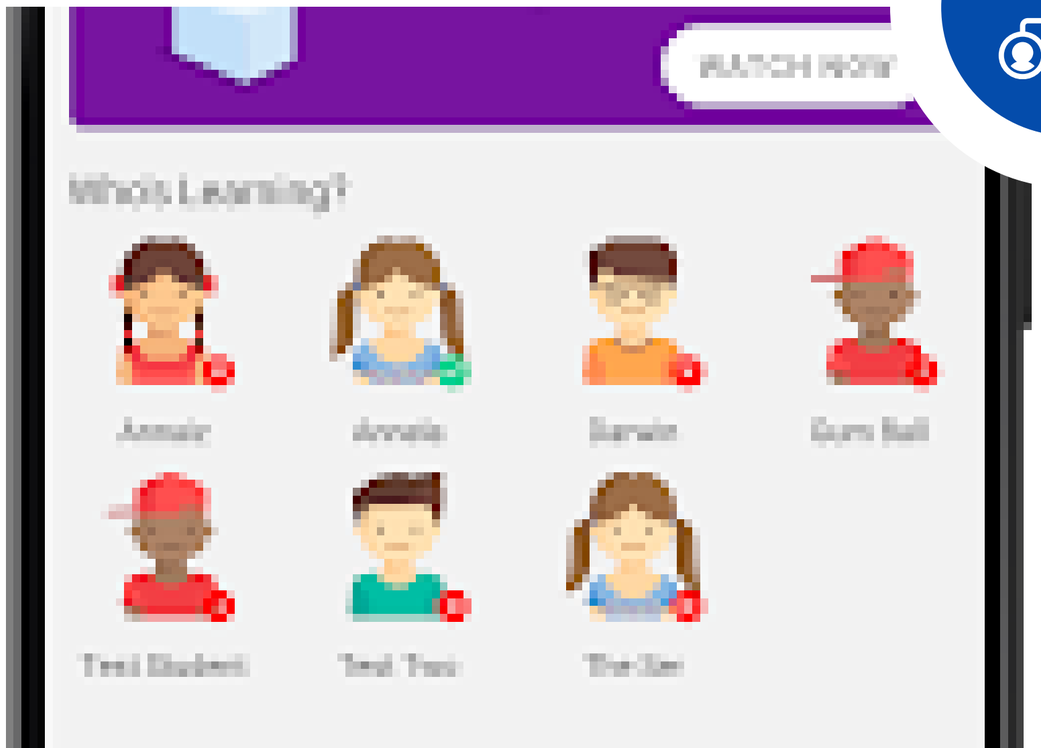


"Every week, educators across Bridge's network of 599 schools access meticulously crafted lesson plans developed by expert teams based both in Cambridge, Massachusetts and locally in Kenya. Throughout the day, teachers across various schools within a country are simultaneously conducting identical lessons for the same grade level. Bridge utilizes data collection methods to compare teaching efficiency between schools and to gauge student performance across different classes, schools, and even countries.

CASE STUDY 6

MwalimuPLUS Personalised Learning





Mwalimuplus is designed to improve the learning-teaching process and has a significant amount of learning materials and supports for primary students to be able to solve math questions with no help.

Conclusion

- AI has the potential to transform education in Kenya.
- However, there are a number of challenges that need to be addressed in order to fully realize the potential of AI in Kenyan education.
- By working together, we can address these challenges and ensure that all Kenyan students have access to a high-quality education.





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Q&A AND CLOSING



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