

PRODUCT PROFILE ROBOTICS, AI & CODING FOR SCHOOLS

Transforming Learning with Robotics, AI, and Coding

WHY DIGITAL SKILLS MATTER

By 2030, over 85 million jobs could go unfilled due to a lack of digital skills. In Africa alone, the digital economy is projected to contribute \$712 billion to GDP by 2050. Meanwhile, 50% of all employees worldwide will require reskilling in digital competencies by 2025. To prepare students for this rapidly evolving job market, schools must adopt future-focused learning approaches that integrate technology, coding, and artificial intelligence.

According to the World Bank estimations, the Digital Economy is the fastest growing economy, growing 2.5 times faster than the global GDP in the last 15 years. This is a huge opportunity for employment for the youth in Africa.

However, specific challenges inhibit African youth's ability to ride the digital wave;

- Lack of meaningful exposure to digital space.
- Lack of adequate digital skills to compete for opportunities in the digital space.

OUR PROGRAM

Digifunzi's Robotics, AI & Coding for Schools program is designed to equip students with essential 21st-century skills through an engaging, hands-on learning approach. Our curriculum integrates robotics, artificial intelligence (AI), and coding into school education, enabling learners to develop problem-solving, critical thinking, and creativity from an early age.

KEY FEATURES & OFFERINGS



Comprehensive Curriculum: Aligned with global and local education standards, covering block-based and text-based coding, AI applications, and robotics.

Hands-on Learning with Quarky: Our Al-powered educational robot fosters deep STEM engagement.

Teacher Training & Support: We equip teachers with skills and resources to effectively implement the program.

Flexible Implementation: Suitable for integration into primary and secondary school curricula or specialized STEM programs.

Affordable & Scalable: Schools of all sizes can implement the program with minimal infrastructure investment.

Global Competitions: Students participate in Global Coding and Robotics competitions, with Digifunzi as the Country Partner for Codeavour.





BENEFITS TO SCHOOLS

Enhanced Student Engagement: Interactive lessons improve learning retention and enjoyment.

Improved Academic Performance: Reinforces key math and science principles.

Future-Ready Graduates: Prepares students for emerging careers in technology, engineering, and data science.

Competitive Edge: Establishes schools as leaders in digital education.

Educator Development: Teachers gain expertise in technologydriven learning methodologies.

Extra Stream of Income: Schools can offer the program as an additional revenue-generating opportunity.



Building Capacity for Sustainability

Digifunzi's implementation strategy is designed to empower schools to independently teach Robotics, AI, and Coding while ensuring long-term sustainability. Our approach includes:

- **Teacher Capacity Building:** We provide comprehensive teacher training to ensure educators can effectively deliver the curriculum.
- **Technical Mentor Support:** Experienced Technical Mentors guide schools through the initial implementation phase, offering expertise and troubleshooting support.
- **Continuous Professional Development:** Teachers receive ongoing learning opportunities to stay updated with the latest advancements in digital education.
- School Ownership & Sustainability: By equipping schools with the necessary skills and knowledge, the program becomes selfsustaining, reducing reliance on external support over time.
- Value for Schools & Learners: Schools benefit from enhanced academic performance, reputation, and financial opportunities, while students gain critical future-ready skills that prepare them for the digital economy.

digifunzi



- Assignments
- Profile



You have 4 new Assignments. Let's start crushing them. You got this!

Lesson stats:

Average scores for all you

lessons

digifunzi

All lessons

Computing

Teacher comments See

all

Great project! Try adding new characters and be creative with it. For example, you can include additional features in your project. Josephine Wairimu



Robotics and

See all

February 5, 2025

Wednesday

Assignments

CURRICULUM & LEARNING MANAGEMENT SYSTEM (LMS)

Digifunzi's curriculum is designed to be compatible with multiple education systems, including **Kenyan CBC**, **British, and American curricula.** It ensures a seamless integration of robotics, AI, and coding into the school syllabus.

Our LMS provides a structured, interactive, and datadriven approach to learning:

- Administration Dashboards for Schools: Enables easy tracking of student and teacher performance.
- **Teacher Dashboard**: Equipped with detailed lesson plans, assessments, and teaching resources.
- **Student Dashboards**: Offers personalized learning journeys, real-time feedback, and progress reports to track improvement.
- Flexible Access: Schools, teachers, and students can access learning materials anytime, ensuring consistent engagement.

THE SCIENCE BEHIND LEARNING, MEET QUARKY

Quarky is an **AI-powered educational robot** that enhances STEM learning through an interactive, hands-on approach:

Learning by Doing Encourages students to code, build, and experiment.

Gamified Education

Increases engagement through interactive challenges.

AI & IoT Integration

Introduces students to machine learning and automation.

Adaptive Learning Paths

Supports individualized learning and problem-solving skills.

Multi-Platform Compatibility

Quarky can be programmed in Scratch and Python using a desktop app, web app, Android app, and iOS app, making it accessible across various devices.







PRICING

Inception Cost

To set up the Robotics, AI & Coding program, schools make an initial investment covering essential components:

Quarky Robotics Kits: Schools purchase kits based on available computers. Each kit costs **KES 19,500**

Learner Access: Schools pay a **oneoff fee** of **KES 2,000** per student for Learning Management System access.

Teacher Training: Schools make a one-off investment of **KES 30,000** per teacher trained.

Support Subscription

To ensure continuous support and curriculum updates, schools subscribe to:

KES 35,000 per school per term for technical support and curriculum upgrades



SOME CLIENTS * * * * *



















PARTNER WITH US

Our vision is ambitious and will be attained with unwavering commitment and like-minded partnerships. We invite you to be part of our impact..





Digifunzi's program integrates robotics, artificial intelligence (AI), and coding into school curricula, equipping students with essential 21st-century skills. Through an engaging, hands-on learning approach, students develop problem-solving, critical thinking, and creativity to thrive in the digital world.

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