

ARTIFICIAL INTELLIGENCE AND CURRICULUM INNOVATION IN ARTS EDUCATION: IMPLICATIONS FOR NATIONAL DEVELOPMENT

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Abstract

This study examines how Artificial Intelligence (AI) is driving innovation in arts education and what that means for national development. It dives into how AI tools, like generative systems, adaptive learning platforms, and smart tutoring assistants, are being woven into the curricula for visual, digital, and performing arts. By employing a qualitative approach that includes documentary analysis and comparative case studies, the research leans on Technological Determinism and Constructivist Learning Theory to illustrate how AI is transforming teaching methods and student engagement. The findings reveal that AI boosts creativity, fosters personalized learning, enhances digital literacy, and broadens access to artistic resources, all of which help strengthen creative industries and contribute to national growth. However, challenges such as infrastructure gaps, limited teacher capacity, ethical dilemmas, and inconsistent policies are obstacles to effective implementation in developing regions. The study suggests that focused investments, curriculum updates, and teacher training are essential to harness AI's potential in arts education fully.

Keywords: Artificial Intelligence, Curriculum Innovation, Arts Education, National Development, Nigeria

INTRODUCTION

Nigeria's education system is under increasing pressure to respond to rapid technological change, persistent youth unemployment, and the need for sustainable national development. While policy conversations often prioritise science and technology disciplines, arts education remains essential for cultivating creativity, innovation, cultural identity, and critical thinking. In the twenty-first century, these competencies are no longer optional; they are foundational to economic competitiveness and social cohesion. Against this backdrop, Artificial Intelligence (AI) has emerged as a transformative force with significant implications for curriculum reform.

Artificial Intelligence refers to computer systems capable of performing tasks that typically require human intelligence, such as learning from data, recognising patterns, generating creative outputs, and adapting to user input. Within educational contexts, AI is increasingly used to personalise learning, provide real-time feedback, automate administrative processes, and support innovative pedagogical practices. However, discussions about AI in Nigerian education have largely focused on STEM fields, leaving arts education under-

examined despite its strategic importance for the country's creative economy.

Nigeria possesses a vibrant cultural and creative sector, including film, music, fashion, visual arts, and digital media. These industries contribute significantly to employment and global visibility. Yet, formal arts education often operates with outdated curricula, limited technological integration, and insufficient alignment with contemporary creative practices. Many students engage daily with digital creative tools outside the classroom, but their formal learning environments rarely reflect these realities. This gap between lived experience and curriculum content weakens educational relevance and reduces the transformative potential of arts education. Integrating AI into arts education presents an opportunity to rethink curriculum design, pedagogy, and assessment in ways that are responsive to Nigeria's developmental needs. Rather than replacing human creativity, AI can function as a supportive tool that enhances experimentation, expands access to artistic resources, and enables more personalised and inclusive learning experiences. When carefully implemented, AI-driven curriculum innovation can reposition arts education from the margins of educational policy to the centre of national development strategy.

This study, therefore, examines the intersection of Artificial Intelligence and curriculum innovation in arts education within the Nigerian context. It explores how AI can be harnessed to strengthen creative capacity, support economic diversification, preserve cultural heritage, and promote inclusive development. By situating technological advancement within educational and developmental frameworks, the paper argues that AI integration in arts curricula must be intentional, context-sensitive, and human-centred if it is to contribute meaningfully to Nigeria's long-term national aspirations.

1. UNDERSTANDING THE KEY CONCEPTS

Artificial Intelligence (AI)

Artificial Intelligence refers to computer systems designed to perform tasks that typically require human intelligence. These tasks include learning from data, recognising patterns, generating creative content, making predictions, and adapting to user input. In education, AI can power adaptive learning platforms, intelligent tutoring systems, automated feedback tools, and creative applications such as music composition software or digital art generators. Within arts education, AI should be understood not as a replacement for human creativity but as a technological tool that can support and extend creative learning processes.

Curriculum Innovation

Curriculum innovation involves deliberate and systematic changes in educational content, teaching methods, learning experiences, and assessment strategies to make education more relevant and effective. It goes beyond minor adjustments and seeks to align education with societal needs, technological advancement, and national development goals. In the Nigerian context, curriculum innovation requires moving from rigid, examination-driven models to more flexible, skills-oriented, and technology-responsive frameworks.

Arts Education

Arts education encompasses structured learning in disciplines such as visual arts, music, drama, dance, creative writing, and cultural studies. It aims to develop creativity, aesthetic appreciation, emotional intelligence, critical thinking, and cultural awareness. In Nigeria, arts education also plays a vital role in preserving indigenous knowledge systems and promoting national identity. When strengthened through innovation, arts education can contribute significantly to both personal development and economic growth.

Implementation

Implementation refers to the practical process of putting educational policies, reforms, or innovations into action. In this context, it includes integrating AI tools into arts curricula, training teachers, providing infrastructure, developing supportive policies, and monitoring outcomes. Effective implementation requires planning, funding, institutional support, and continuous evaluation to ensure that curriculum innovation produces meaningful results.

National Development

National development refers to the overall improvement of a country's economic, social, cultural, and political systems. It includes economic diversification, job creation, cultural sustainability, technological advancement, and social cohesion. In Nigeria, national development increasingly depends on nurturing creative industries, improving human capital, and embracing innovation. Strengthening arts education through AI-driven curriculum reform can support these broader development objectives.

Creative Economy

The creative economy consists of industries that rely on creativity, intellectual property, and cultural production, such as film, music, fashion, digital media, publishing, and design. Nigeria's creative sector has demonstrated significant growth potential. Curriculum innovation that integrates AI can equip students with relevant digital and artistic skills, positioning them to participate competitively in this expanding sector.

Digital Literacy

Digital literacy refers to the ability to effectively use digital technologies for learning, communication, and creative production. In the context of AI and arts education, digital literacy includes understanding how AI tools function, how to use them responsibly, and how to apply them creatively. Developing digital literacy is essential for preparing Nigerian students for participation in a technology-driven global economy. These key concepts provide the foundational framework for understanding how Artificial Intelligence and curriculum innovation in arts education can be strategically implemented to support Nigeria's national development goals.

THEORETICAL CONCEPTUALIZATION

The topic Artificial Intelligence and Curriculum Innovation in Arts Education: Implementation for National Development in Nigeria can be theoretically conceptualised at the intersection of curriculum theory, learning theory, and development theory. It requires understanding how technological transformation interacts with pedagogical change and national socio-economic objectives. Three major theoretical lenses are particularly useful: Constructivist Learning Theory, Curriculum Innovation Theory, and Human Capital Theory within a development framework.

Constructivist Learning Theory

Constructivism, associated with scholars such as Jean Piaget and John Dewey, posits that learners actively construct knowledge through interaction, experimentation, and reflection rather than passively receiving information. Learning is most meaningful when students engage with problems, tools, and environments that stimulate inquiry and creativity. Within this framework, Artificial Intelligence can be conceptualised as a mediating tool that enhances learner interaction and engagement. AI-powered platforms can provide adaptive feedback, simulate creative environments, and support experimentation in music, visual arts, drama, and digital story telling. In arts education, where creativity and interpretation are central, AI aligns with constructivist principles by enabling iterative exploration rather than rigid instruction. Thus, theoretically, AI becomes a facilitator of learner-centred pedagogy rather than a mechanistic substitute for artistic expression.

Curriculum Innovation Theory

Curriculum innovation theory views curriculum as dynamic and responsive to societal change. Scholars in curriculum studies argue that curriculum should reflect contemporary realities, cultural context, and future societal needs. Innovation involves deliberate transformation in curriculum content, teaching strategies, learning experiences, and assessment models. Obiokor (2014) observed that Nigerian education still maintains British colonial curricula and practices that are not fully in harmony with traditional values and local realities. The theoretical conceptualization of this topic positions Artificial Intelligence (AI) as a catalyst for curriculum renewal. It supports interdisciplinary learning, integrates digital creativity, and modernises assessment practices. From this perspective, the curriculum is not static but evolving. AI integration becomes part of a broader reform agenda aimed at aligning arts education with Nigeria's digital and economic realities. Holmes, Bialik, and Fadel (2019) further argued that AI-driven education supports curriculum modernization through inter disciplinary learning, Digital creativity, and improved assessment practices. From this perspective, the curriculum is not static but evolving. AI integration becomes part of a broader reform agenda aimed at aligning arts education with Nigeria's digital and economic realities.

Human Capital Theory and National Development

Human Capital Theory, associated with development economists such as Theodore Shultz and Gary Becker, argues that investment in education increases productivity and national economic growth. Education enhances skills, competencies, and innovative capacity. When applied to arts education, this theory challenges the perception that the arts are economically marginal. In Nigeria, creative industries, such as film, music, fashion, and digital design, contribute significantly to employment and GDP. Integrating AI into arts education strengthens digital creativity, technological competence, and innovation, thereby expanding the country's human capital base. The theoretical link here is clear; AI-driven curriculum innovation in arts education enhances skills relevant to the creative economy, which in turn supports economic diversification and national development.

Technological Pedagogical Content Knowledge (TPACK) Framework

The TPACK framework further strengthens the theoretical grounding of this topic. It emphasises the intersection of: Content knowledge (arts disciplines), Pedagogical knowledge (how to teach), Technological knowledge (AI and digital tools). Effective implementation requires teachers to integrate these domains meaningfully. AI should not be added superficially; it must align with artistic content and sound pedagogical practice. This framework highlights the central role of teacher competence in successful curriculum innovation.

Cultural Sustainability Perspective

Given Nigeria's diverse cultural heritage, the topic must also be conceptualised within a cultural sustainability framework. Arts education is not only about economic productivity but also about preserving indigenous knowledge, identity, and values. AI integration must therefore respect and enhance local artistic traditions rather than displace them. The theoretical balance here involves technological modernisation alongside cultural continuity. Integrated Theoretical Model Conceptually, the topic can be understood as a three-layer interaction: Pedagogical Foundation (Constructivism), AI supports active, creative, learner-centred arts education., Curriculum Reform Mechanism (Curriculum Innovation Theory & TPACK), AI.

Drives transformation in content, pedagogy, and assessment, Developmental Outcome (Human Capital & Cultural Sustainability). AI-enhanced arts education contributes to economic diversification, creative industry growth, and national identity preservation.

2. METHODOLOGY

Research Design

This study adopts a qualitative research design, specifically a documentary and analytical approach. The design is appropriate because the study interrogates policy frameworks, curriculum structures, and theoretical positions on Artificial Intelligence (AI) in arts education rather than testing a controlled intervention. The qualitative approach enables critical examination of institutional documents, scholarly debates, and implementation frameworks within the Nigerian educational context. The study is anchored in interpretive analysis, allowing for systematic evaluation of policy intentions, curriculum content, and the implications of AI integration for national development.

Sources of Data

The research relies on secondary data derived from credible and authoritative sources, including Policy documents from the Federal Ministry of Education, Curriculum guidelines from the National Universities Commission, Technical and vocational frameworks from the National Board for Technical Education, International AI-in-education frameworks from UNESCO, Peer-reviewed journal articles on AI, curriculum innovation, and arts education, Conference proceedings, and academic monographs. These materials provide the conceptual and policy foundation for evaluating how AI can be embedded within arts education for sustainable national development.

Method of Data Collection

Data were collected through systematic library research and digital database searches. Academic databases such as Google Scholar, Scopus-indexed journals, and institutional repositories were consulted. Key search terms included: Artificial Intelligence in Education, AI and Curriculum Innovation, Arts Education Reform, Digital Pedagogy in Nigeria, AI for National Development. Policy documents and regulatory guidelines were purposively selected based on relevance, recency, and authority.

Method of Data Analysis

The study employs thematic content analysis. Documents were carefully reviewed, coded, and categorized into major thematic areas, including Conceptual foundations of AI in education, Curriculum transformation models, Technological infrastructure and readiness in Nigeria, Capacity development in arts education, and Implications for national development.

IMPLICATIONS FOR NATIONAL DEVELOPMENT

The integration of Artificial Intelligence (AI) into curriculum innovation in arts education carries significant implications for Nigeria's national development. When strategically implemented, AI-enhanced arts education can influence economic growth, human capital formation, cultural sustainability, technological advancement, and social cohesion. These implications extend beyond classroom practice and directly connect education to broader national objectives.

Human Capital Development

National development depends largely on the quality of human capital. AI-integrated arts education promotes critical thinking, creativity, adaptability, collaboration, and digital literacy skills that are essential in a knowledge-driven economy. Unlike traditional rote-based systems, AI-supported learning encourages experimentation, innovation, and problem-solving. For Nigeria, where youth unemployment remains high, equipping learners with creative and digital competencies enhances their employability. Graduates trained in AI-enhanced artistic tools can participate effectively in emerging sectors such as digital media production, animation, music technology, game design, advertising, and multimedia communication. This strengthens the

country's productive workforce.

○ **Economic Diversification**

Nigeria's overdependence on oil revenue has exposed the economy to volatility. The creative economy, including film, music, fashion, and digital arts, has emerged as a promising alternative growth sector. AI-driven curriculum reform in arts education can directly contribute to strengthening this sector. By integrating AI tools into arts training, institutions can produce graduates capable of engaging in technologically advanced creative production. This enhances the global competitiveness of Nigeria's creative industries, increases export potential, and generates employment opportunities. In this way, arts education becomes an instrument of economic diversification.

Strengthening the Creative Economy

Nigeria's film and music industries already demonstrate strong regional and international influence. However, sustainability requires innovation. AI can improve content production, editing efficiency, sound engineering, digital design, and distribution strategies. Recent discussions on AI and culture have highlighted that AI can enhance productivity, reduce production costs, and strengthen competitiveness within cultural and creative industries (UNESCO, 2025). When arts education incorporates AI literacy, students become creators rather than passive consumers of digital content. This strengthens local innovation ecosystems and positions Nigeria as a leader in Africa's digital creative space.

Cultural Preservation and Global Visibility

National development is not solely economic; it also involves cultural sustainability. Nigeria possesses rich indigenous artistic traditions across its diverse ethnic groups. AI tools can support the digital documentation, preservation, and reinterpretation of these traditions. Through digital archiving, virtual exhibitions, and interactive storytelling platforms, AI can help safeguard cultural heritage while making it accessible to global audiences. Recent discussions on AI and culture have also emphasized the role of AI in the preservation of cultural heritage, endangered languages, and oral traditions through digital technologies (UNESCO, 2025). This enhances Nigeria's cultural diplomacy and soft power internationally.

Social Cohesion and National Integration

Arts education promotes empathy, dialogue, shared identity, and cultural exchange, contributing to social cohesion and inclusive societies (UNESCO, 2024). In a culturally diverse nation like Nigeria, creative expression can serve as a bridge across ethnic, religious, and regional divides. AI-enabled collaborative platforms allow students from different parts of the country to co-create artistic projects, fostering mutual understanding and national unity. By encouraging inclusive participation, AI-supported arts education can contribute to social stability and cohesion.

Technological Advancement and Digital Competitiveness

Integrating AI into arts curricula also promotes broader digital transformation. It encourages students and institutions to engage with emerging technologies responsibly and creatively. This strengthens Nigeria's position within the global digital economy and reduces technological dependency. AI integration within education systems can contribute to digital transformation and prepare learners for participation in emerging knowledge economies (UNESCO, 2021). When educational institutions adopt AI meaningfully, they stimulate an innovation culture across other sectors of society.

Educational Equity and Inclusion

If properly implemented, AI can expand access to quality arts education, especially in underserved rural areas. Virtual platforms and adaptive systems can help bridge educational gaps between urban and rural communities. UNESCO (2021) stated that artificial intelligence has the potential

to improve educational access, promote inclusion, and support innovation within education systems when implemented responsibly. By widening access to creative and technological resources, AI-driven curriculum innovation supports inclusive development and reduces inequality, an essential goal of national progress. The implications of integrating Artificial Intelligence into arts education extend far beyond curriculum reform. In the Nigerian context, it represents a strategic opportunity to strengthen human capital, diversify the economy, preserve cultural heritage, enhance social cohesion, and advance digital competitiveness. However, these developmental gains depend on intentional implementation, adequate infrastructure, teacher preparedness, and ethical governance. When aligned with national priorities, AI-enhanced arts education can catalyze sustainable national development in Nigeria.

CHALLENGES TO THE DEVELOPMENTAL IMPLICATIONS

While Artificial Intelligence (AI) driven curriculum innovation in arts education holds strong potential for Nigeria's national development, several structural, institutional, and socio-cultural challenges may limit its impact. These challenges must be critically examined to ensure that projected developmental gains are realistic and sustainable.

Infrastructural Deficits

One of the most significant barriers is inadequate infrastructure. Many Nigerian schools, particularly in rural areas, face irregular electricity supply, Poor internet connectivity, Limited access to computers and digital devices, and overcrowded classrooms. AI systems depend heavily on stable power and internet access. Sanusi (2025) noted that many Nigerian schools still lack the technological resources and infrastructure necessary for effective AI integration in teaching and learning. Without addressing these infrastructural constraints, implementation may remain confined to urban or elite institutions, thereby undermining national development goals

Digital Inequality

The integration of AI risks widening existing inequalities. Students from well-resourced schools may benefit from advanced digital tools, while those in underfunded institutions are left behind. This digital divide can reinforce socio-economic disparities rather than reduce them. If AI-enhanced arts education becomes accessible only to a privileged minority, its developmental impact will be uneven and socially destabilising.

Limited Teacher Capacity

Effective implementation depends on teacher competence. Many arts educators in Nigeria were trained under traditional pedagogical models with minimal exposure to digital tools or AI technologies. Onwuagboke, Singh, and Fook (2015) stated that inadequate technological and pedagogical competence among educators continues to limit effective technology integration within Nigerian arts education. Challenges include Insufficient digital literacy, Resistance to technological change, Lack of professional development opportunities, and fear of technological replacement. Without systematic teacher retraining and support, AI integration may remain superficial or poorly executed.

Funding Constraints

Sustainable AI integration requires significant investment in hardware and software acquisition, teacher training, maintenance, technical support, and curriculum review processes. Given competing national priorities and limited education budgets, consistent funding may be difficult to secure. Sanusi (2025) noted that inadequate infrastructure, limited resources, and insufficient institutional support continue to hinder effective AI implementation within Nigerian education. Policy commitment without financial backing will weaken implementation.

Curriculum Overload

Nigeria's curriculum is already content-heavy and examination-driven. Olugbenga, Yakubu, and

Ali (2023) noted that curriculum overload in Nigerian schools has become a major challenge to effective teaching and learning, creating excessive academic workload and limiting meaningful learning experiences. Therefore, introducing AI components without restructuring existing content may increase academic burden rather than promote innovation. True curriculum reform requires reducing outdated content, integrating AI meaningfully rather than adding it superficially, and aligning assessment systems with new learning outcomes. Without systemic reform, AI may become an additional burden instead of a transformative tool.

Ethical and Cultural Concerns

AI systems raise important ethical issues, including data privacy and student information security, intellectual property rights in creative production, algorithmic bias, and cultural homogenisation. There is also the risk that AI-generated content may overshadow indigenous artistic traditions, diluting cultural authenticity. Recent discussions on AI and culture have warned that AI systems may reinforce cultural homogenisation and marginalise minority cultures when technological systems are not designed to protect cultural diversity (UNESCO, 2025). If not carefully managed, technological integration could unintentionally marginalise local creative identities.

Over-Reliance on Technology

Arts education is fundamentally human-centred. Excessive dependence on AI tools may reduce hands-on creativity, emotional engagement, and personal artistic expression. If technology begins to dominate rather than support learning, the core purpose of arts education, human creativity and expression, may be compromised. Recent discussions on AI and culture have also warned that excessive dependence on AI may weaken human creativity and cognitive capacities if technology replaces rather than supports human artistic engagement (UNESCO, 2025).

Weak Policy Implementation Culture

Nigeria has experienced numerous well-designed educational policies that were poorly implemented due to Bureaucratic inefficiency, Inconsistent political commitment, Monitoring and evaluation gaps. AI-driven curriculum innovation may face similar implementation challenges unless governance structures are strengthened. Sanusi (2025) stated that many AI-related educational initiatives in Nigeria do not fully translate into classroom reality because implementation is often weakened by inadequate infrastructure, insufficient resources, and limited institutional support. The developmental implications of integrating AI into arts education are promising but not automatic. Infrastructural weaknesses, digital inequality, limited teacher capacity, funding gaps, curriculum rigidity, ethical concerns, and policy implementation failures pose serious obstacles. For AI-driven arts curriculum reform to contribute meaningfully to national development in Nigeria, these challenges must be addressed through coordinated planning, sustained investment, inclusive policies, and strong institutional commitment. Only then can the transformative potential of AI in arts education be fully realised.

SUMMARY

This work examined the intersection of Artificial Intelligence (AI), curriculum innovation, and arts education within the context of Nigeria's national development. It began by establishing that arts education, though often marginalised in policy discourse, plays a critical role in nurturing creativity, cultural identity, critical thinking, and innovation, competencies that are central to sustainable development in the twenty-first century. The study clarified key concepts, including Artificial Intelligence, curriculum innovation, arts education, implementation, and national development, situating them within Nigeria's socio-economic realities. The theoretical

conceptualisation drew from constructivist learning theory, curriculum innovation theory, human capital theory, and the technological pedagogical content knowledge (TPACK) framework. These perspectives collectively position AI not as a replacement for human creativity but as a pedagogical and developmental tool capable of transforming teaching, learning, and assessment in arts education. The discussion highlighted how AI can enhance arts curricula through personalised learning, digital creativity, adaptive feedback systems, and interdisciplinary integration. It further demonstrated that effective implementation requires policy alignment, infrastructural development, teacher capacity building, and curriculum restructuring. In terms of national development, the work identified several implications: strengthening human capital, promoting economic diversification through the creative economy, preserving cultural heritage, enhancing digital competitiveness, and fostering social cohesion. However, it also critically examined the challenges that may hinder these outcomes, including infrastructural deficits, digital inequality, funding limitations, limited teacher preparedness, ethical concerns, and weak policy implementation mechanisms.

CONCLUSION

Artificial Intelligence presents a transformative opportunity for reimagining arts education in Nigeria. When integrated thoughtfully into curriculum design and pedagogical practice, AI can revitalise arts learning, make it more responsive to contemporary realities, and align it more closely with national development objectives. However, technological adoption alone does not guarantee progress. The effectiveness of AI-driven curriculum innovation depends on strategic planning, inclusive implementation, adequate funding, teacher empowerment, and strong institutional commitment. Most importantly, AI must remain a supportive tool that enhances human creativity rather than diminishes it. For Nigeria, the integration of AI into arts education is not merely an educational reform initiative; it is a developmental strategy. By strengthening creative capacity, fostering digital competence, and preserving cultural identity, AI-enhanced arts education can contribute meaningfully to economic resilience, social stability, and sustainable national growth. The challenge, therefore, is not whether Nigeria should integrate AI into arts education, but how deliberately and responsibly it can do so to ensure that technological advancement translates into genuine national development.

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