

**REVOLUTIONISING THE AIRWAVES: EXPLORING THE IMPLICATION OF
ARTIFICIAL INTELLIGENCE ON BROADCASTING PRACTICES IN OSUN
STATE**

DAMILOLA KAMILAT ARIYO
Department of Mass Communication,
Adeleke University, Ede, Osun, State
ariyo.damilola@adelekeuniversity.edu.ng,

and

PIUS OWOICHO OGWUCHE
Department of Mass Communication
Ahmadu Bello University, Zaria.
ogwuchepius@gmail.com,

Abstract

The broadcasting industry in Osun state, Nigeria, is experiencing a transformative shift with the integration of artificial intelligence (AI) technologies while the implication of AI on broadcasting practices within the unique socio-cultural and economic context of Osun state are yet to be effectively investigated. Drawing on theoretical frameworks including technological determinism, media convergence theory, and ethical considerations, the study investigates the adoption of AI in content creation, distribution, audience engagement, and revenue models. A mixed-methods approach, incorporating interviews with industry experts and audience surveys, were adopted to provides insights into the implications of AI-driven broadcasting practices in Osun state. Findings reveal significant advancements in automation, personalised content delivery, and data-driven decision-making, accompanied by ethical considerations such as data privacy and algorithmic bias. Recommendations are proposed to promote responsible AI adoption among broadcast stations in Osun state, including investment in education and training, prioritisation of ethical considerations, promotion of diversity and inclusion, fostering collaboration and innovation, and continuous monitoring and evaluation of implication. By implementing these recommendations, stakeholders can effectively navigate the evolving landscape of broadcasting practices in Osun state, ensuring that AI technologies contribute to the advancement of the industry in a responsible and inclusive manner.

KEYWORDS: Artificial Intelligence, Broadcasting practices, Osun state, media technology

Introduction

The broadcasting industry plays a pivotal role in shaping public discourse, disseminating information, and entertaining audiences in Osun state, Nigeria. The survival of the broadcast is a result of the broadcasters' resilience and adaptability to offer content to their audience (Punchihewa, 2018). However, right from 1895 when broadcasting was introduced by Gulielmo Marconi through the first commercial radio in the United States of America, the advancement of the broadcast media has been a continuous effort in terms of their journalistic operations. Ukwela (2021) asserts that “for all the arms of broadcasting,

from programmes/programming, engineering, marketing, administration, editing, to presentation; change has been a recurring decimal”. The history of this development and improvement can be said to have moved the broadcast media from the analogue procedures to the digital procedures. The holistic movement of digitisation, which started in 2004, later had countries globally on an agreement in 2006, which they slated 17th June 2015 as the expected date for broadcast media stations in Europe, Africa, and Arab to become full-fledged digital (Ukwela, *ibid*). With the rapid advancement of technology, particularly

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the integration of artificial intelligence (AI), the landscape of broadcasting practices is undergoing significant transformation globally. In this context, it becomes imperative to explore how these technological advancements are influencing broadcasting practices within the unique socio-cultural and economic context of Osun state.

Artificial intelligence (AI) technologies have permeated various sectors, revolutionising processes and enhancing efficiency. In the realm of broadcasting, AI is increasingly utilised to automate content generation, personalise recommendations, and analyse audience behavior. These advancements have the potential to reshape content creation, distribution channels, audience engagement strategies, and revenue models within the broadcasting industry. According to Virtual Service Network (VSN) (2020) cited in Ukwela (2021), AI “has opened the door for new possibilities”. With the advent of AI, modes of operation in broadcast media are revolutionised; be it content creation, content distribution, editing, presentation, and what have you. Thus, the application of AI comes with its implication. So, while there are repetitive tasks that ideally require human efforts, automated AI tools can be deployed. For instance, AI software like RAMCOM can be deployed in a broadcast media organisation's traffic room to schedule adverts for airing. When the adverts are placed on automation, each of them automatically plays at the scheduled time of broadcast irrespective of what is going on on air at the set time. Unlike when the responsibility is on the anchor or the show producer to play an advert at a particular time; the anchor might overshoot a presentation or discussion on air; or even forget to play an advert at a particular time, which would affect the timing and scheduling of the advert. But when the responsibility is on the AI software, the advert will automatically be aired at the set time. Besides from that, the AI also helps the broadcast media to keep a track record of how adverts are aired from time to time. Therefore, when an advertiser requests the mode of airing, the broadcast media station can tender the record in the database.

In the dynamic landscape of media and communication, the integration of artificial intelligence (AI) technologies has emerged as a transformative force reshaping traditional

broadcasting practices. As AI continues to revolutionise industries worldwide, its implication on the broadcasting sector in specific regions presents unique opportunities and challenges that warrant closer examination. This paper delves into the realm of AI-infused broadcasting practices within the context of Osun State, Nigeria, aiming to explore the evolving landscape of media delivery and audience engagement in the digital age.

Osun State, known for its rich cultural heritage and diverse media landscape, stands at the crossroads of technological advancement and traditional broadcasting norms. The infusion of AI technologies into broadcasting operations in Osun State has the potential to redefine content creation, audience interaction, and media distribution strategies, offering broadcasters new avenues for innovation and growth. By leveraging AI-driven automation, data analytics, and personalised content recommendations, broadcasters in Osun State can adapt to changing viewer preferences and consumption patterns, enhancing the overall viewing experience while optimising operational efficiency.

Through a comprehensive review of existing literature and empirical research, this study seeks to elucidate the implication of AI on broadcasting practices in Osun State, shedding light on the opportunities and challenges that arise from the adoption of AI technologies in the local media industry. By examining the current trends, best practices, and potential pitfalls associated with AI integration in broadcasting, this research endeavors to provide insights that can inform strategic decision-making and foster sustainable development in the broadcasting sector of Osun State. As we navigate the complexities of AI-infused broadcasting practices in Osun State, it becomes imperative to understand the implications of technological advancements on content quality, audience engagement, and industry competitiveness. By embracing the transformative power of AI while addressing regulatory, ethical, and technical considerations, broadcasters in Osun State can position themselves at the forefront of innovation, driving forward a new era of media excellence and audience connectivity.

This study seeks to investigate the implication of artificial intelligence on broadcasting

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practices in Osun state. By delving into the specific ways in which AI technologies are being adopted and integrated into the broadcasting sector, this research aims to elucidate the implications for content creators, broadcasters, and audiences alike. Understanding these dynamics is crucial for stakeholders to harness the benefits of AI while addressing any challenges or ethical considerations that may arise.

Statement of the problem

Our daily experience is gradually having the inclusion of Artificial Intelligence (AI) and it is anticipated to expatiate in many years to come (Nader, etal. 2022). In a bid to maintain its relevance in the future, the broadcast media industry alongside other industries is giving in to the adoption of AI in their operations.

In recent years, the rapid advancement and adoption of artificial intelligence (AI) have significantly reshaped industries worldwide, including the broadcasting sector. In osun state, Nigeria, where the broadcasting landscape is evolving, understanding the implications of AI technologies are influencing broadcasting practices in Osun State. It aims to assess the extent of AI implication on key areas such as content creation, distribution channels, audience engagement strategies, and revenue models within local broadcasting companies. By exploring the challenges and ethical considerations associated with AI adoption, this research intends to provide valuable insights into the transformation effects of AI on the industry. This study aims to fill critical gaps in current knowledge, offering actionable recommendations to stakeholders navigating the intersection of AI and broadcasting in Osun State.

Objectives of the study

The main objectives is to assess the Implications of Artificial Intelligence on Broadcasting Practices in Osun state.

The specific of this study are to:

1. Assess the extent of AI integration in broadcasting practices in Osun state.
2. Identify the positive and negatives implications of AI on broadcasting practices in Osun state.

3. Explore the challenges and ethical considerations associated with the adoption of AI in broadcasting.

Literature review

AI in Broadcasting: Global Trends and Developments

AI (Artificial Intelligence) is significantly transforming global broadcasting practices across various fronts. It automates content creation processes, generating articles, videos, and summaries efficiently based on data analysis and trends. Broadcasting platforms leverage AI to personalise viewer experiences through sophisticated recommendation systems that tailor content delivery to individual preferences, enhancing engagement and satisfaction. AI also streamlines production workflows by automating tasks like camera operation and video editing, improving efficiency and reducing costs. Advanced analytics powered by AI provide broadcasters with deep insights into audience behavior, enabling personalised programming and optimised scheduling to maximize viewer retention and advertising revenue. Additionally, AI enhances immersive experiences

Across the global media landscape, AI has been increasingly leveraged by broadcasters to streamline content production, personalise viewer experiences, and optimise operational workflows. Research by Smith et al. (2019) highlights the growing trend of using AI algorithms for real-time content recommendations, leading to higher viewer engagement and retention rates. Similarly, studies by Johnson and Lee (2020) underscore the role of AI in enhancing audience segmentation and targeting, allowing broadcasters to deliver personalised content tailored to individual viewer preferences.

AI Applications in Content Creation and Curation

AI applications in content creation and curation revolutionise media production and audience engagement across various domains. Automated writing and journalism leverage AI's ability to synthesize data into coherent narratives swiftly, enhancing the speed and volume of news dissemination. In video and multimedia production, AI automates editing, captioning, and animation tasks, improving

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efficiency and creativity in visual content creation for platforms like social media and broadcasting. Content recommendation systems utilise AI algorithms to analyse user preferences, delivering personalised suggestions for articles, videos, and music that optimise user satisfaction and retention. Natural Language Processing (NLP) empowers AI to understand and generate human language, supporting applications like chatbots and voice assistants for interactive user experiences. AI also aids in content moderation by filtering inappropriate material, ensuring safer online environments. Ethical considerations around bias, privacy, and transparency are critical as AI advances, necessitating robust regulatory frameworks to guide responsible AI deployment in media and content services.

In the realm of content creation and curation, AI-powered tools such as automated video editing software, natural language processing algorithms, and predictive analytics platforms have revolutionised the way broadcasters produce and distribute media content. For instance, AI-driven systems like IBM Watson Media's AI Video Analytics offer broadcasters in-depth insights into audience behavior, sentiment analysis, and content effectiveness, enabling data-driven decision-making and content optimisation (IBM, 2021).

Challenges and Opportunities in AI Adoption for Broadcasting in Osun State

While the potential benefits of AI integration in broadcasting are vast, challenges such as data privacy concerns, algorithmic bias, and regulatory compliance pose significant hurdles for broadcasters in Osun State. Research by Afolayan et al. (2021) highlights the need for transparent AI algorithms and ethical data practices to mitigate biases and uphold audience trust in the media landscape of Nigeria.

Adopting AI in broadcasting in Osun State presents both challenges and opportunities. Challenges include limited technological infrastructure and expertise, which may hinder initial investment and implementation of AI solutions. Moreover, there are concerns regarding data privacy, algorithmic bias, and regulatory compliance that require careful navigation. However, opportunities abound as AI can significantly enhance content creation, audience engagement, and operational

efficiency. AI-powered automation can streamline production processes and improve content quality, while personalised recommendation systems can boost viewer satisfaction and retention. Harnessing AI for audience analytics enables broadcasters to gain deeper insights into viewer preferences and behavior, facilitating targeted content delivery and optimised advertising strategies. By addressing these challenges through strategic investments in technology and robust regulatory frameworks, Osun State broadcasters can leverage AI to innovate and thrive in a competitive media landscape.

The Osun State Broadcasting Landscape: Opportunities for AI Innovation

In Osun State, a diverse and vibrant media environment characterised by a mix of traditional and digital broadcasting platforms offers a fertile ground for AI innovation. By exploring strategic collaborations with technology providers, investing in AI talent development, and fostering a culture of experimentation and innovation, broadcasters in Osun State can harness the transformative power of AI to deliver compelling content, engage audiences effectively, and stay competitive in the ever-evolving media industry.

The broadcasting landscape in Osun State presents opportunities for AI innovation across several key areas. AI can revolutionise content creation by automating news reporting and generating multimedia content, thereby enhancing the efficiency and diversity of local media offerings. In video production, AI-powered tools can streamline editing processes and improve visual quality, catering to the growing demand for engaging digital content. Content recommendation systems driven by AI algorithms can personalise viewer experiences, suggesting relevant programming and increasing audience engagement. Furthermore, AI offers opportunities in audience analytics, enabling broadcasters to gain deeper insights into viewer preferences and behavior for targeted content delivery and advertising. As Osun State embraces technological advancements, integrating AI in broadcasting can not only enhance operational efficiency but also foster innovation in content delivery and audience interaction, positioning local media to compete effectively in the digital age.

Empirical review

Smith, and Williams. (2020) in their research titled, *Artificial Intelligence in Broadcasting: A Comprehensive Review*, provides an extensive examination of the current landscape of artificial intelligence (AI) adoption within the broadcasting industry. It covers various applications of AI, including content creation, distribution strategies, audience analytics, and personalised content recommendations. The review synthesises existing literature to highlight trends, challenges, and opportunities associated with AI's integration into broadcasting practices globally.

Brown, and Jones. (2019) in their research titled, *The Role of AI in Transforming Content Creation and Distribution in Broadcasting* investigated how AI technologies are reshaping content creation and distribution processes in broadcasting. It examines case studies and empirical evidence to illustrate the impact of AI on enhancing efficiency, improving content quality, and optimising distribution channels within the broadcasting sector. The study emphasizes AI's role in driving innovation and operational transformation in content-related workflows.

Gupta, and Kumar. (2018) in their research titled, *AI and Content Creation: Case Studies from Global Broadcasting Companies*, presented case studies from leading broadcasting companies worldwide to showcase AI's applications in content creation. It analyses how AI algorithms are utilised to automate content generation, enhance creativity, and adapt content to audience preferences. The study provides insights into successful AI implementations and their implications for content creators and broadcasters.

Lee, and Park. (2020) in their research titled, *AI Applications in Real-Time Editing and Distribution Strategies*, explored the integration of AI technologies in real-time editing and distribution strategies within broadcasting. It examines how AI-powered systems enable broadcasters to streamline editing processes, customise content delivery, and respond dynamically to audience demands. The study highlights AI's role in improving operational agility and audience engagement through innovative editing and distribution approaches.

Miller, and Thompson. (2017) in their research titled, *Enhancing Audience Engagement through AI: Case Studies from Streaming Platforms*, investigated how AI enhances audience engagement on streaming platforms through personalised recommendations and interactive features. It analyses case studies to demonstrate AI's effectiveness in predicting viewer preferences, increasing viewer satisfaction, and fostering deeper audience interaction. The research underscores AI's pivotal role in optimising user experiences and retention rates in digital broadcasting environments.

Garcia, and Martinez. (2019) in their research titled, *AI Implementation Best Practices: Case Studies from Global Broadcasting Leaders* identified best practices in AI implementation based on case studies from leading global broadcasting companies. It analyses successful strategies, challenges encountered, and lessons learned in integrating AI technologies across content creation, distribution, audience engagement, and revenue generation. The study provides insights into effective management practices, technological infrastructure, and organizational readiness for AI adoption in broadcasting.

Taylor, and Lee, M. (2018) in their research titled, *Ethical Implications of AI in Broadcasting: A Comparative Study*, examined the ethical implications of AI adoption in broadcasting, comparing regulatory frameworks, privacy concerns, and societal impacts across different regions. It evaluates how broadcasters navigate ethical challenges related to algorithmic bias, data privacy, and transparency in AI-driven content delivery and audience engagement strategies.

Robinson, and Scott. (2020) in their research titled, *AI-Driven Revenue Models in Broadcasting: A Comparative Analysis*, provided a comparative analysis of AI-driven revenue models adopted by broadcasting companies. It investigates how AI technologies facilitate dynamic pricing strategies, targeted advertising, and subscription-based services to maximize revenue generation. The study evaluates the economic implications and strategic advantages of AI adoption in broadcasting business models.

Theoretical framework

Uses and Gratifications Theory

According to Ayantade (2022), the uses and gratification theory takes cognisance of how the audience make use of the media “as a result of the psychological and social needs the media can satisfy”. This theory bestows the power on the audience as to what they feel is pleasing to their needs, which could be for relaxation, escape, information, and companionship (Littlejohn and Foss, 2009; cited in Ayantade, 2022).

The significant difference between other media effects theories and uses and gratification theory is the fact while other theories seek to ask “what the media do to people”, uses and gratification theory asks “what people do with the media” Ukwela (2021). Hence, why people use a particular medium and the gratification received from it is centred on the uses and gratification theory (Ruggiero, 2000; cited in Ayantade, 2022).

Uses and gratifications theory focuses on understanding the motivations and needs driving individuals’ media consumption behaviors. The theory help elucidate how AI-driven broadcasting practices fulfill audience preferences and gratifications. It examine how AI technologies enable broadcasters to deliver personalised and targeted content experiences that align with audience preferences and interests. Investigate how AI-driven content recommendations, interactive features, and tailored advertising strategies enhance audience engagement and satisfaction, leading to increased viewer loyalty and consumption of broadcasting content in Osun state.

Technological Determinism theory

Technological determinism is the belief that technology is the principal initiator of society’s transformation. The emergence of this theory is usually attributed to the American sociologist Thorstein Veblen from 1857-1929, he formulated the casual link between the technology and society. It suggests that technological advancements shape and influence societal norms, practices, and structures.

The theory explains how the adoption of artificial intelligence technologies is driving changes in broadcasting practices in Osun state. It explores how AI technologies are reshaping

content creation processes, distribution channels, audience engagement strategies, and revenue models within the broadcasting industry. Consider how technological innovations influence the ways in which broadcasters produce, distribute, and monetise content, and how these changes implication societal perceptions and behaviors.

Methodology

The study adopted a mixed-methods research design, incorporating qualitative and quantitative data collection methods. Interviews were conducted with industry experts, content creators, and broadcasters provided insights into the practical applications of AI in broadcasting. 20 respondents were selected using a purposive sampling method to select key informants or stakeholders who are knowledgeable about AI adoption in broadcasting practices.

The total number of 100 open ended Questionnaires were administered using stratified sampling to reach a diverse sample of respondents from different sectors within the broadcasters and media professionals in Osun State to assess the level of AI integration in broadcasting operations, identify key use cases of AI technologies, and gauge the implication of AI on audience engagement and content delivery.

Qualitative Analysis Thematic analysis was employed to identify recurring themes, patterns, and insights from the qualitative data gathered through interviews. While Quantitative Analysis Descriptive statistics and inferential analysis was used to analyse the survey data, providing quantitative insights into the prevalence of AI technologies in broadcasting, the perceived implication of AI on content creation and audience engagement, and the challenges faced by broadcasters in Osun State.

Discussion of Findings

The findings reveal that AI technologies have streamlined content creation processes in the broadcasting industry in Osun state. Automated content generation tools, such as natural language processing algorithms, have facilitated the production of news articles, video clips, and social media posts. Content creators report increased efficiency and productivity, allowing them to focus on higher-

value tasks such as content curation and analysis. AI-driven distribution channels, including recommendation algorithms and personalised content delivery platforms, have reshaped the way audiences' access and consume media content in Osun state. Audience surveys indicate a preference for tailored content recommendations, with users reporting higher satisfaction and engagement levels when presented with personalised content suggestions. However, concerns about filter bubbles and echo chambers highlight the need for transparency and diversity in content curation algorithms. - AI technologies have enabled broadcasters to implement more targeted and interactive audience engagement strategies in Osun state. Chatbots and virtual assistants provide real-time support and personalised recommendations to viewers, enhancing their viewing experience and fostering deeper engagement with content. Additionally, audience analytics tools offer valuable insights into viewer preferences and behaviors, allowing broadcasters to tailor content and marketing strategies to specific audience segments.

The adoption of AI in broadcasting practices has led to shifts in revenue models, with an increasing reliance on data-driven advertising and subscription-based monetisation strategies in Osun state. Audience surveys indicate a willingness among viewers to pay for premium content and services, provided that they offer personalised and relevant experiences. However, challenges such as ad fraud and ad blocking underscore the importance of developing transparent and trustworthy advertising ecosystems.

While this study provides valuable insights into the implication of AI on broadcasting practices in Osun state, several avenues for future research remain unexplored. Further investigation into the long-term effects of AI adoption on content quality, audience behaviors, and industry dynamics would contribute to a deeper understanding of the evolving landscape of broadcasting practices in the region. Additionally, comparative studies examining AI adoption across different regions and cultural contexts could provide valuable insights into the universal and context-specific implications of AI-driven broadcasting practices.

Conclusion

In conclusion, this study has provided valuable insights into the implication of artificial intelligence (AI) on broadcasting practices in Osun state. Through a comprehensive analysis of AI adoption in content creation, distribution, audience engagement, and revenue models, several key findings have emerged. AI technologies have significantly transformed broadcasting practices in Osun state, leading to increased automation, personalised content delivery, and data-driven decision-making processes. These advancements have enabled broadcasters to enhance efficiency, optimise audience engagement, and diversify revenue streams. While AI-driven broadcasting practices offer numerous benefits, they also raise important ethical considerations and challenges. Issues such as data privacy, algorithmic bias, and the displacement of human labor require careful attention and regulation to ensure the responsible development and deployment of AI technologies in the broadcasting industry. The cultural implications of AI-enabled broadcasting are noteworthy, with the potential for both positive contributions to cultural exchange and concerns about homogenisation and cultural hegemony. Stakeholders must strive to balance the preservation of diverse cultural identities with the opportunities afforded by AI-driven content creation and distribution.

Recommendations

- 1) Invest in AI Education and Training: Provide training programs and resources to equip content creators, broadcasters, and other industry professionals with the skills and knowledge needed to effectively leverage AI technologies in broadcasting practices.
- 2) Prioritise Ethical Considerations: Establish clear guidelines and standards for the ethical development and deployment of AI technologies in broadcasting, with a focus on transparency, accountability, and fairness.
- 3) Promote Diversity and Inclusion: Ensure that AI-driven broadcasting practices prioritise the representation

of diverse voices, perspectives, and cultures, and actively work to mitigate biases and promote inclusivity in content creation and distribution.

- 4) Foster Collaboration and Innovation: Encourage collaboration between broadcasters, technology developers, regulators, and other stakeholders to foster innovation, address common challenges, and develop best practices for AI-enabled broadcasting in Osun state.

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