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USE OF AI TECHNOLOGY IN ADDRESSING DATA PRIVACY CONCERNS: LESSONS FROM NIGERIAN ACADEMIC LIBRARIES

Esther Edidiong Okpako-Uyeh

Dept of Information Management, Lead City University,

Dr. Oluwaseun Oluropo Ajibare,

Dept of Information Management, Lead City University,

Abstract

The continuous adoption of Artificial Intelligence (AI) across higher education libraries presents transformative prospects for automated service delivery, metadata generation, and resource discovery, while simultaneously introducing profound vulnerabilities regarding patron data privacy. This conceptual paper examines the operational deployment of AI tools within Nigerian academic libraries, focusing on how technological adoption can be harmonized with robust data protection standards. Through a systematic analysis of sociotechnical realities and national regulatory frameworks, including the Nigeria Data Protection Act (NDPA) of 2023, the paper explores the inherent friction between machine learning data requirements and information ethics. The discussion highlights that while Nigerian libraries are gradually integrating conversational agents and automated tools to manage growing user demands, the absence of customized institutional policies and adequate cybersecurity infrastructure exposes patron transaction logs to potential misuse. To bridge this gap, five strategic recommendations are articulated: establishing sector-specific AI privacy guidelines, mandating Data Protection Impact Assessments (DPIAs), incorporating privacy-by-design principles into procurement protocols, advancing continuous professional capacity building, and enforcing transparent institutional policies. Implementing these frameworks ensures that academic libraries preserve their foundational mandate as secure, equitable, and privacy-conscious hubs of intellectual inquiry.

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Keywords: Artificial Intelligence, Data Privacy Concerns, Information Ethics, Academic Libraries, Nigeria Data Protection Act

Introduction

Artificial Intelligence (AI) has emerged as a fundamental driver of contemporary knowledge management, restructuring how academic institutions collect, organize and disseminate information resources. Within the higher education matrix, university libraries serve as the institutional bedrock for research, teaching and learning activities. Consequently, the strategic integration of automated systems and machine learning applications into library operations is no longer a peripheral experiment; it has become a central strategic consideration for modernizing information access and maintaining institutional relevance in a dynamic digital ecosystem (Holmes et al., 2021).

From a global perspective, modern academic libraries are increasingly embedding AI applications across various operational workflows, ranging from automated cataloging and predictive analytics to natural language query processing (Tella, 2022). These technological applications optimize staff productivity, eliminate routine clerical bottlenecks and provide dynamic, personalized information environments for patrons. Within African higher education institutions, however, the adoption trajectory reflects a more nuanced pace (Abubakar & Fatoki, 2022). Structural challenges including unpredictable power supply, constrained bandwidth, and chronic funding shortfalls continue to condition implementation. Nevertheless, several libraries across West Africa,

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particularly in Nigeria, are actively exploring automated and intelligence-driven solutions to navigate resource scarcity and accommodate expanding student populations (Igbo et al., 2024).

The primary challenge arising from this technological transition is the acute tension between the operational demands of AI applications and the ethical imperative of patron data privacy. Machine learning models fundamentally rely on the continuous harvesting and processing of vast datasets, including user search queries, circulation logs, digital identity credentials and reading habits (Zuboff, 2019). In many Nigerian academic libraries, this data intake occurs in an environment characterized by evolving regulatory enforcement mechanisms, modest technical infrastructure and a lack of library-specific data governance policies (Oketunji, 2023). When personal transaction records are processed through third-party vendors or opaque algorithmic architectures without strict safeguards, user confidentiality is compromised, exposing patrons to unauthorized profiling and surveillance risks (Burrell, 2016). This ongoing vulnerability threatens to erode the institutional trust that libraries have historically maintained as secure spaces for intellectual exploration.

Addressing this conflict requires a deep conceptual alignment between automated library practices and the principles of information ethics. While international guidelines, such as those promulgated by UNESCO and global library associations, stress algorithmic transparency and individual data control, these principles cannot be mechanically

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imported into the Nigerian context (Jobin et al., 2019). They must be critically interpreted against local administrative structures, infrastructural limitations, and regulatory reality. By synthesizing authorial insights with contemporary literature, this paper provides an analytical examination of how AI tools can be deployed in Nigerian academic libraries to enhance operational utility while rigorously safeguarding user data privacy.

AI ADOPTION in Nigerian Academic Libraries

The historical trajectory of technology integration in Nigerian academic libraries reflects a progressive evolution over four decades, moving from basic offline cataloging databases in the late twentieth century to contemporary digital repositories and networked information environments (Onuoha, 2021). As higher education institutions expand to accommodate growing student cohorts, the demand for flexible, continuous, and remote access to information resources has intensified. Within this evolving framework, AI technologies represent the latest shift in how libraries manage knowledge resources and structure user-centered services.

In recent years, several Nigerian university libraries have initiated pilot implementations of AI-driven applications to optimize daily workflows. Conversational reference tools and automated chatbots are being introduced to handle routine inquiries, navigate digital repository structures and provide round-the-clock reference guidance (Ojedokun, 2023). Similarly, experimental machine learning utilities are being evaluated for preliminary bibliographic classification, plagiarism verification and automated

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metadata enrichment (Tella, 2022). These applications demonstrate that intelligence-driven software can significantly relieve staff from repetitive administrative duties, thereby allowing information professionals to focus on specialized research support and advanced information literacy instruction.

Challenges to AI Adoption in Nigerian Libraries

Despite these clear operational benefits, the widespread adoption of AI technologies across Nigerian academic libraries remains uneven and structurally constrained. Financial constraints represent the primary barrier, as institutional budgets frequently prioritize physical infrastructure and subscription fees for essential databases over high-cost software licenses and specialized technical hardware (Ukpe, 2024). Furthermore, persistent infrastructural deficits, such as unstable electrical power and limited institutional broadband capacity, create operational instabilities that hinder the continuous running of cloud-dependent AI platforms (IFLA, 2023). Added to these challenges is a noticeable professional skills gap, as formal LIS curricula across many Nigerian universities are only beginning to incorporate core competencies in data science, machine learning architecture and algorithmic auditing (Safana & Fari, 2024).

Crucially, the deployment of these automated platforms directly heightens patron data privacy concerns across the academic sector. Because AI tools thrive on continuous data inputs, user interactions with library chatbots, search interfaces, and electronic resource portals leave extensive digital footprints (Thinesse-Demel, 2022). Without dedicated local

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server infrastructure, many libraries rely on external software-as-a-service (SaaS) applications, resulting in the transmission and storage of student and faculty research data on third-party servers (Radford et al., 2023). This structural dependence creates severe data protection vulnerabilities, as patron reading behaviors, research specializations and personal credentials risk exposure to commercial data aggregators or unauthorized external entities without explicit, informed consent.

AI Adoption and Data Privacy Protection in Nigerian Libraries

The operationalization of AI technologies in Nigerian academic libraries occurs at the intersection of technological ambition, infrastructural limitations and complex regulatory dynamics. While information professionals increasingly recognize the strategic value of automated systems, successfully navigating the accompanying data privacy vulnerabilities requires resolving several interconnected structural challenges. A major obstacle is the gap between national data protection legislation and practical enforcement within higher education institutions (Adebayo, 2024). Although the enactment of the Nigeria Data Protection Act (NDPA) in 2023 established a statutory baseline for data processing, the operationalization of these legal principles within academic libraries remains fragmented (Oketunji, 2023). Most university administrative structures lack specialized data protection officers and clear technical compliance frameworks customized for information repositories. Consequently, when library management procures or pilots AI-driven software, system evaluation is typically centered on

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functional utility and cost, while data governance considerations such as user consent protocols, data retention limits, and third-party data-sharing terms are frequently overlooked.

Infrastructural deficits severely compromise data privacy and security management (IFLA, 2023). Securing patron data within AI ecosystems requires resilient, locally hosted server infrastructure, robust cryptographic protocols and continuous network monitoring (Abadi et al., 2016). However, due to budgetary constraints and unreliable power supplies, many Nigerian university libraries rely heavily on low-cost, third-party cloud architectures situated outside national jurisdiction. This external reliance introduces significant data privacy risks, as libraries retain minimal technical oversight over vendor data practices, secondary data harvesting, or server-level security vulnerabilities (Zhang, 2023). In the event of a system breach or unauthorized data extraction by external vendors, libraries are left with limited remediation options, exposing sensitive patron research patterns to public disclosure.

The absence of clear institutional policies and specialized technical expertise among LIS professionals creates an operational vacuum regarding AI ethics (Mabawonku, 2024). Institutional policies in most Nigerian universities remain largely silent on the ethical boundaries of automated decision-making, machine learning auditing and user data analytics. Furthermore, library staff members often lack the technical training required to audit vendor algorithms, assess data encryption standards or conduct

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structured Data Protection Impact Assessments (DPIAs) prior to software integration. This knowledge deficit makes libraries passive consumers of commercial technologies, unable to assert contractual privacy demands or guarantee to patrons that their digital interactions remain confidential (Strecker, 2020).

Ethical Dimensions and Privacy Governance in AI Integration

Integrating AI into academic library workflows introduces complex ethical considerations that go beyond standard system performance metrics. Information ethics in librarianship rests upon foundational principles of patron confidentiality, equitable resource access, intellectual freedom and professional accountability (Bubinger & Dinneen, 2021). The deployment of data-intensive machine learning platforms directly impacts these principles, requiring deliberate ethical governance.

Algorithmic bias represents a primary ethical concern in the deployment of AI search tools and recommender engines (Harwell, 2019). Machine learning systems are trained on extensive historical datasets that often reflect structural, geographic and cultural inequalities. In the context of Nigerian academic libraries, commercial AI algorithms predominantly trained on Western academic corpora risk systematically underrepresenting indigenous research, local scholarly journals and domestic institutional repositories. When libraries rely on uncalibrated recommendation tools, local scholarship is marginalized, restricting equitable access to culturally relevant

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research materials and reinforcing historical information imbalances (Oghenevbaire-Ogodo & Ivwighreghweta, 2023).

A related challenge is the algorithmic opacity inherent in complex "black box" machine learning architectures (Burrell, 2023). Modern deep learning utilities make classification and content delivery decisions through complex computational processes that remain hidden from both library users and information professionals. This opacity directly undermines the ethical requirement of algorithmic transparency enshrined in emerging international standards such as the EU AI Act (Voigt & Demetz, 2024). If an AI-driven discovery portal flags, filters or omits specific research resources without clear, explainable logic, the library's role as an unbiased facilitator of inquiry is compromised. Library professionals must ensure that automated systems remain explainable, enabling patrons to understand how search results and research recommendations are generated. Furthermore, automated systems can erode professional autonomy and decision-making within librarianship (Tella, 2022). Historically, professional librarians have exercised skilled judgment in selecting resources, indexing complex knowledge domains, and providing reference guidance tailored to specific user contexts. The uncritical substitution of human expertise with automated decision-making utilities risks reducing information professionals to passive system monitors. Retaining meaningful human oversight where librarians review automated classification outputs and exercise final discretion over

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collection governance is essential for preserving the ethical integrity and pedagogical mission of academic libraries.

Privacy governance must address the complex intellectual property and copyright issues associated with machine learning models (Safana & Fari, 2024). AI platforms continuously ingest copyrighted scholarly texts, thesis repositories, and analytical datasets to refine their predictive capabilities. Within academic libraries, this raises serious ethical questions regarding digital rights management, fair use boundaries and institutional control over local scholarship. Unless academic libraries negotiate explicit, privacy-conscious licensing agreements with technology vendors, institutional research outputs risk uncompensated commercial exploitation and unauthorized secondary data mining, directly infringing upon author rights and institutional confidentiality agreements.

Relevance of Privacy-Centric AI Frameworks to the Nigerian Context

Evaluating the relevance of privacy-centric AI frameworks within Nigerian academic libraries requires contextualizing global standards against national socio-economic and institutional realities (Jobin et al., 2019). As higher education institutions across Nigeria expand their digital services, academic libraries must navigate the dual imperative of implementing technological innovations while fulfilling their legal and ethical duties as custodians of user privacy.

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From an operational perspective, establishing contextualized privacy frameworks is essential for safeguarding institutional integrity. Nigerian university libraries cater to diverse user populations including undergraduate students, postgraduate researchers, academic staff, and visiting scholars who depend on library systems to access sensitive information. Unrestricted data mining or unencrypted tracking across library databases exposes these users to profiling based on their research interests, political inquiries or personal inquiries (Kosinski & Wang, 2023). Implementing structured data protection mechanisms, such as user data anonymization and strict access controls, ensures that the library remains a safe space for intellectual exploration, free from monitoring or self-censorship (Solove, 2008).

From a legal and policy standpoint, privacy-centric frameworks directly support compliance with national data protection mandates (Ifemeje & Okwuosa, 2022). The enactment of the Nigeria Data Protection Act (NDPA) of 2023 provides a statutory framework requiring all data controllers and processors to handle personal information lawfully, transparently and securely. Academic libraries, as core administrative and academic units of universities, handle extensive personal datasets daily. Translating the broad mandates of the NDPA into actionable, sector-specific library procedures helps prevent regulatory non-compliance, mitigates potential institutional liability and establishes high standards for responsible data management across the university sector.

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Furthermore, establishing robust privacy governance strengthens the position of Nigerian academic libraries within global scholarly networks (Bubinger & Dinneen, 2021). International collaborative research, cross-institutional data sharing and access to global digital consortia increasingly require compliance with stringent international data privacy standards, such as the EU's General Data Protection Regulation (GDPR) and AI Act (Voigt & Demetz, 2024). By establishing transparent, privacy-centric AI procurement and data processing workflows, Nigerian academic libraries enhance their operational credibility, facilitate international research partnerships and position themselves as forward-looking information institutions within the global knowledge economy.

Recommendations

To address the identified challenges and guide the responsible integration of AI technologies while protecting patron privacy in Nigerian academic libraries, the following five actionable recommendations are proposed:

1. To Develop Sector-Specific AI Privacy Guidelines Aligned with National Legislation: The National Information Technology Development Agency (NITDA), in close collaboration with the Nigerian Library Association (NLA) and the National Universities Commission (NUC), should formulate comprehensive, sector-specific AI governance guidelines tailored to academic libraries. These guidelines must establish explicit rules regarding data minimisation, storage limits, algorithmic transparency, vendor accountability and explicit user consent mechanisms. Institutional governing councils and library

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committees should formally adopt these standards to ensure consistent regulatory enforcement across all university libraries.

2. Mandate Data Protection Impact Assessments (DPIAs) Prior to AI System Deployment: The Nigeria Data Protection Commission (NDPC) should issue a regulatory binding directive mandating all academic libraries to conduct thorough Data Protection Impact Assessments (DPIAs) before procuring or deploying any AI tool, conversational agent or automated data utility. University management must allocate dedicated technical resources to support these evaluations. Library IT units, working alongside institutional legal officers, should lead the DPIA process to map data workflows, identify potential privacy vulnerabilities and implement mandatory mitigation controls before public system deployment.
3. Incorporate Privacy-by-Design Principles into Software Procurement and Contracting: Academic library directors and university procurement departments must embed privacy-by-design principles directly into technology acquisition frameworks. Software license agreements must mandate technical controls such as differential privacy, zero-retention data logging, and automatic data anonymization at the point of entry. Procurement policies should explicitly prohibit vendors from harvesting, aggregating or selling patron usage data to secondary parties, incorporating clear breach notification clauses and financial penalties for non-compliance.

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4. Expand Capacity-Building Programs in AI Ethics and Data Privacy Education: The National Universities Commission (NUC) should mandate the integration of AI ethics, machine learning auditing and data privacy principles into Library and Information Science (LIS) undergraduate and postgraduate curricula across Nigerian universities. Concurrently, the Librarians' Registration Council of Nigeria (LRCN) and the Nigerian Library Association (NLA) should establish continuous professional development modules focused on practical privacy management, algorithmic auditing and vendor assessment for practicing librarians. University authorities must fund staff attendance at these specialized training workshops.
5. Establish Transparent Institutional Policies and Clear User Communication Protocols: University library managements must draft and publish formal, accessible institutional data governance policies. Libraries should maintain clear, plain-language notices across physical facilities and electronic service portals, informing patrons about the presence of automated tools, the specific nature of data being collected, the underlying algorithmic logic and user rights regarding data deletion. Libraries must provide straightforward opt-out mechanisms for personalized services, ensuring that users can access essential library resources without being forced to consent unnecessary data profiling.

Conclusion

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This conceptual analysis demonstrates that the integration of Artificial Intelligence into Nigerian academic libraries creates a fundamental operational paradox: while automated tools offer valuable opportunities to improve service efficiency, streamline resource discovery and assist expanding student cohorts, their underlying reliance on large-scale data collection poses serious risks to patron data privacy and information ethics. The tension between the computational logic of AI systems and the established library principles of confidentiality and user autonomy is intensified in the Nigerian context by persistent infrastructural deficits, inadequate financial resources, limited technical expertise and a lack of tailored institutional policies.

Addressing these challenges requires moving beyond viewing AI simply as a technical upgrade and recognizing it as a complex sociotechnical shift that demands deliberate governance. The ethical risks associated with uncritical adoption including algorithmic bias, opaque decision-making, vendor data exploitation and the marginalization of local scholarship underscore the necessity of establishing robust data protection controls. While recent legislative developments like the Nigeria Data Protection Act of 2023 provide a basic legal foundation, bridging the gap between broad national statutes and daily library operations requires active intervention by key stakeholders, including NITDA, NUC, NLA, LRCN and university leadership.

Ultimately, the successful adoption of AI technologies within Nigerian academic libraries depends on the sector's ability to balance technological innovation with core ethical

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values. By implementing sector-specific guidelines, conducting mandatory Data Protection Impact Assessments, embedding privacy-by-design principles into procurement workflows, expanding professional training and maintaining transparent user communication, Nigerian academic libraries can effectively utilize automated tools. Adopting these structured safeguards will ensure that higher education libraries continue to serve as secure, equitable and trusted centers for intellectual inquiry in the digital era.

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