

# **ARTIFICIAL INTELLIGENCE IN ACADEMIC LIBRARIES: OPPORTUNITIES AND CHALLENGES**

## **Section 1: Contribution Details**

<b>Contribution</b>	<b>Detail</b>
Authors Name(s)	<b>Abdul Kadir Salifu</b>
Title of Submission:	<b>ARTIFICIAL INTELLIGENCE IN ACADEMIC LIBRARIES: OPPORTUNITIES AND CHALLENGES.</b>
Sub-Theme(s) of Submission:	<b>Challenges of using AI applications in libraries in African countries</b>
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## **Section 2: Abstract Text**

This study explores the growing interest and application of AI in academic libraries globally, with a particular focus on Ghanaian universities. Recognizing the significance of AI's potential and the challenges it presents, the study aims to identify and analyze the opportunities AI offers to the University of Ghana, Kwame Nkrumah University of Science and Technology (KNUST), and the University for Development Studies (UDS). Additionally, it examines the challenges these institutions face in implementing AI technologies and provides recommendations for overcoming these challenges and leveraging AI effectively. A mixed-methods approach was employed, combining qualitative and quantitative research methods to offer a comprehensive understanding of AI opportunities and challenges. Data collection involved structured surveys distributed to librarians, IT staff, and users, alongside semi-structured interviews and focus group discussions with key stakeholders. The study reveals that AI has the potential to significantly improve resource management, enhance user services, and support innovative research within academic libraries. However, it also identifies several challenges, including financial constraints, technical barriers, and the need for extensive staff training. To address these issues, the study recommends the development of training programs for library staff, the implementation of AI pilot projects, and the provision of ongoing support and resources to facilitate AI adoption. The findings underscore the overall impact of AI on library services and offer policy and practice recommendations for university administrators

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to support AI integration in academic libraries. This research provides valuable insights into the opportunities and challenges of AI integration in academic libraries at the selected Ghanaian universities, highlighting the need for strategic planning and investment to maximize the benefits of AI in these institutions.