

Artificial Intelligence Infrastructure required to improve Metadata Services in Libraries at Institutions of Higher Education in Namibia

Section 1: Contribution Details

Contribution	Detail
Authors Name(s)	Tissa Magano Titus; Mashilo Modiba
Title of Submission:	Artificial Intelligence Infrastructure required to improve Metadata Services in Libraries at Institutions of Higher Education in Namibia
Sub-Theme(s) of Submission:	Implementation of AI and machine learning (ML) in library systems and services
Keywords of Submission:	AI in metadata services, Machine learning for libraries, AI infrastructure in higher education, Optical Character Recognition (OCR) in libraries, Metadata automation and AI.

Section 2: Abstract Text

Artificial intelligence (AI) infrastructure is important in the improvement of metadata services in institutions of higher education (IHE) in Namibia. AI infrastructure refers to intelligent technologies such as machine learning algorithm, natural language processing (NLP) algorithm, automated classification algorithm and Optical Character Recognition (OCR) technology that can be used to improve metadata services in institutions of higher education. This study explores the AI infrastructure required to improve Metadata Services in Libraries at Institutions of Higher Education in Namibia. The study employed convergent mixed methods research to explore the infrastructure needed to adopt AI to improve metadata services. The study reveals that AI can be supported by infrastructure such as NLP, machine learning, and OCR technology to improve the metadata services and capturing at IHEs in Namibia. The findings contribute significantly to the knowledge of metadata services in academic libraries. The study recommends that IHEs in Namibia adopt AI technologies such as NLP, OCR, and machine learning to improve the metadata services. It also emphasises the need for robust AI infrastructure, staff training, and strategic planning to ensure a successful and long-lasting implementation. The study further recommend AI infrastructure framework required to improve metadata services at IHEs in Namibia.