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Leveraging ethical standards in artificial intelligence technologies: A guideline for responsible teaching and learning applications

Uunona, Gabriel N.^a; Goosen, Leila^b[Save all to author list](#)^a University of South Africa, Namibia^b University of South Africa, South Africa

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Abstract

Artificial intelligence (AI) is revolutionizing the field of education by providing new opportunities for online learning. However, as with any technology, there are ethical considerations that must be considered to ensure that AI-powered online learning applications are safe and improve student outcomes. This chapter explored the ethical implications of AI in online learning and proposed best practices for the development of ethical AI-powered online learning applications. Specifically, it looked at how to leverage ethical values in the Namibian education and training sector while focusing on various instructional technologies. Ethical aspects related to instructional technologies, learning management systems, interactive whiteboards, digital games, augmented and virtual realities, gamification, mobile technologies, and virtual learning environments were discussed. As AI and instructional technologies become more prevalent in the online education landscape, students and teachers must understand how responsible technology works and how ethical decisions are made. © 2023, IGI Global. All rights reserved.

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