

# Title: Awareness, knowledge, and attitude towards artificial intelligence: Perspective of medical students in Ghana

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## Abstract

The adoption of emerging technologies among university students has become increasingly prevalent in recent years. AI-assisted technologies are gradually permeating medical education and practice to improve healthcare delivery and reduce resource waste. This study aimed to investigate the awareness, use, and perception of AI among medical students in Emmanuel Quaye Archampong Library at the University of Ghana. Using a survey research design, data were collected from medical students at the University of Ghana Medical School. Structured questionnaires were administered to the respondents online using Google Forms. With a total of 1366 respondents, Krejcie and Morgan's published table was employed to select the study sample size of 302 medical students. Forty-eight (39.0%) medical students agreed that the use of AI-assisted technologies was voluntary without being coerced to use them. More than half of the respondents (50.4%) reported being moderately aware of AI-assisted technologies and adequately understanding the concept of AI. Grammarly and ChatGPT were predominantly used in medical studies, despite the lack of opportunities for training on AI-assisted technologies. It is recommended that regular training and guidance be provided to students to appropriately use AI-assisted technologies in research and learning.

## Keywords

artificial intelligence, technology acceptance model, medical students, academic library, Ghana

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