

Knowledge, Usage, Attitudes and Needs of Health Professions Students regarding the use of Artificial Intelligence

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Introduction

Artificial intelligence (AI) is becoming more prevalent in healthcare, but there is limited research on students' knowledge, usage, and attitudes toward AI in education. This highlights the need to study their perceptions, readiness to adopt AI, and concerns about its integration into their academic and professional development.

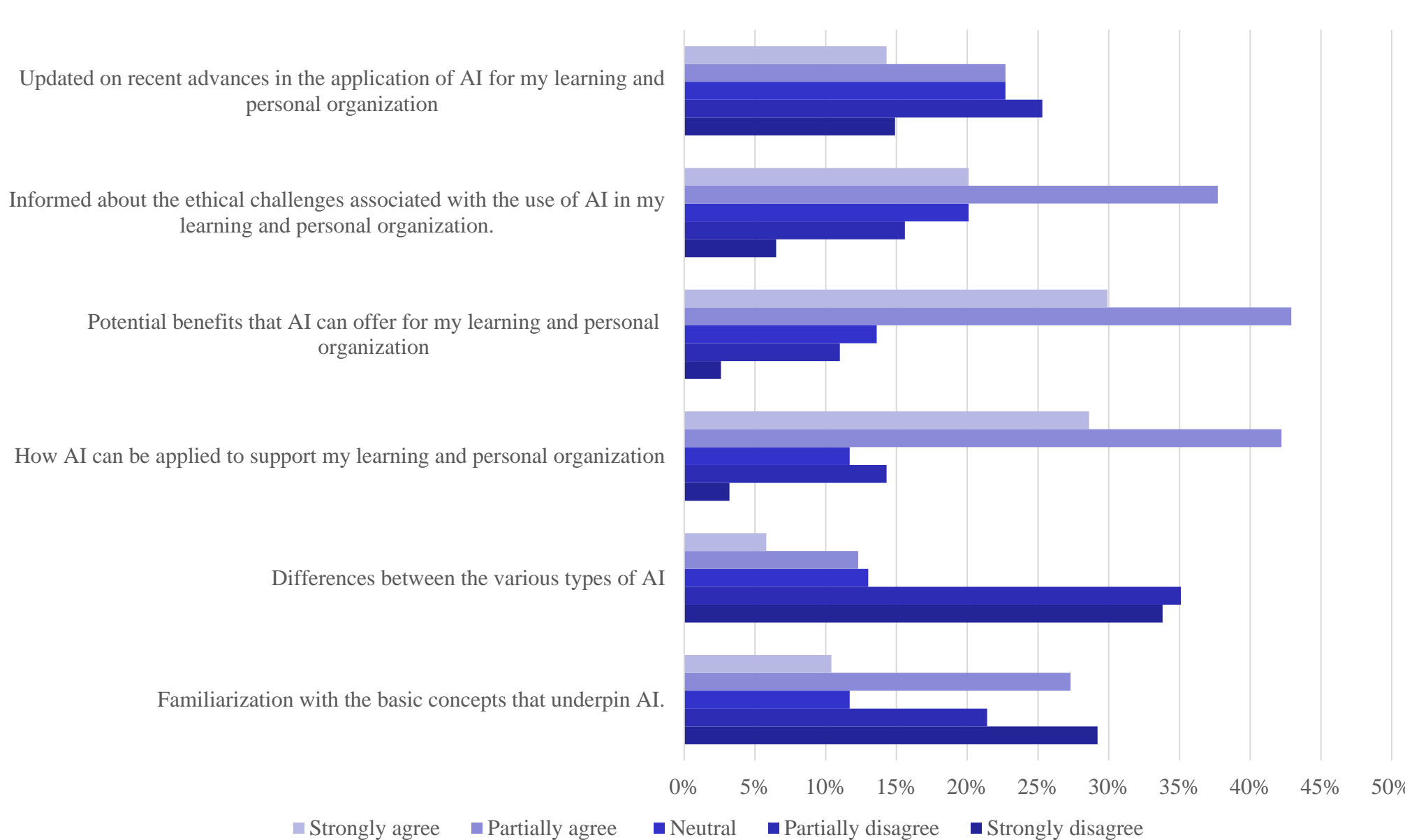
The study aimed to evaluate students' knowledge of AI and its role in their learning. It also sought to explore their attitudes towards integrating AI into health professions education, while identifying their needs, concerns, and perceptions of potential risks related to incorporating AI into the curriculum.

Material / Methods

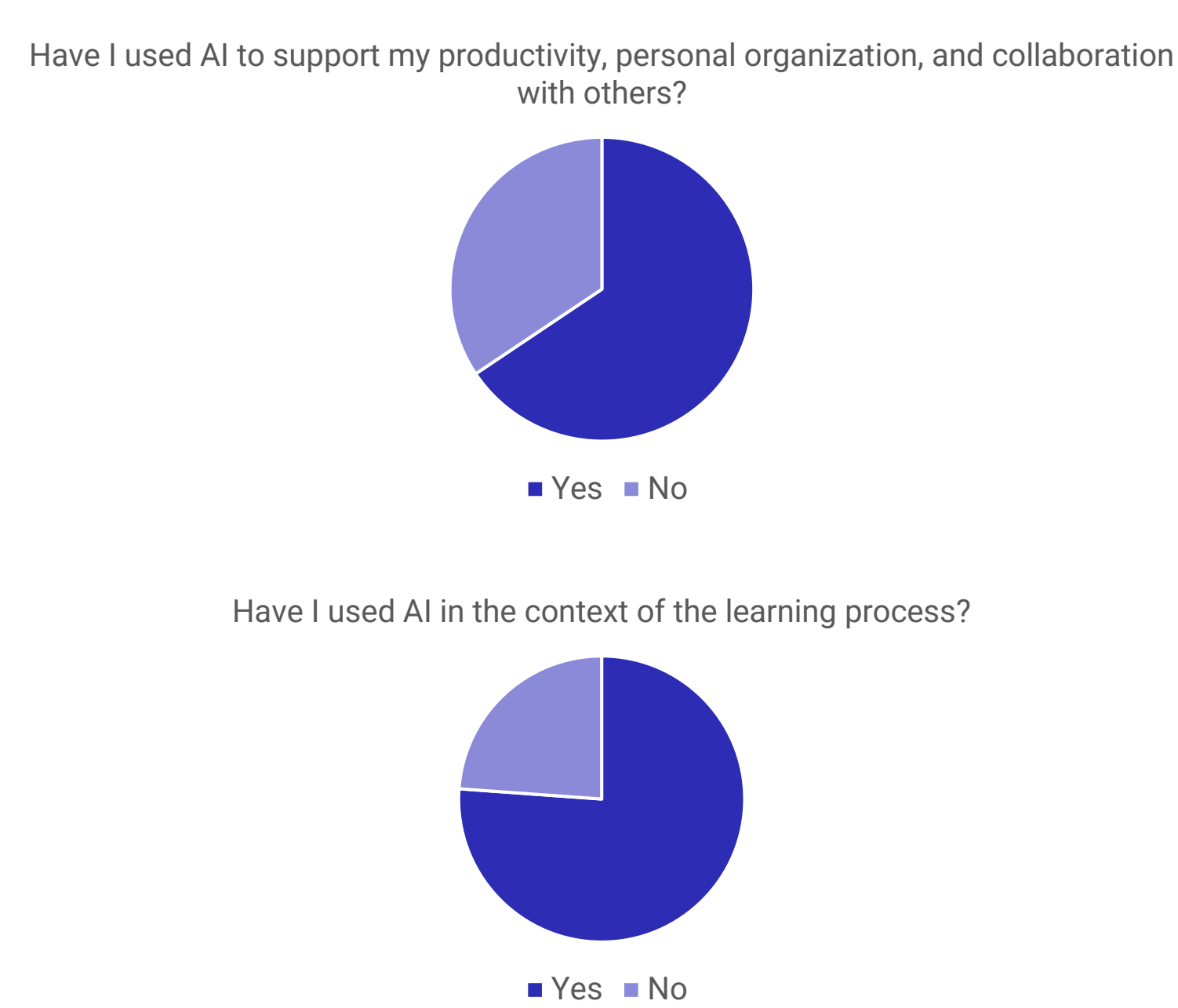
A descriptive and observational study was conducted using an online survey administered to students at the Alcoitão School of Health Sciences during the 2023-2024 academic year. The survey was designed to assess multiple dimensions, including students' knowledge AI, their use of AI in learning, their attitudes towards the integration of AI in health professions education, and their needs, concerns, and perceptions of risks related to AI. Likert-scale questions were employed to gather data on these topics, allowing for a structured evaluation of student perspectives on AI in the educational context.

Results

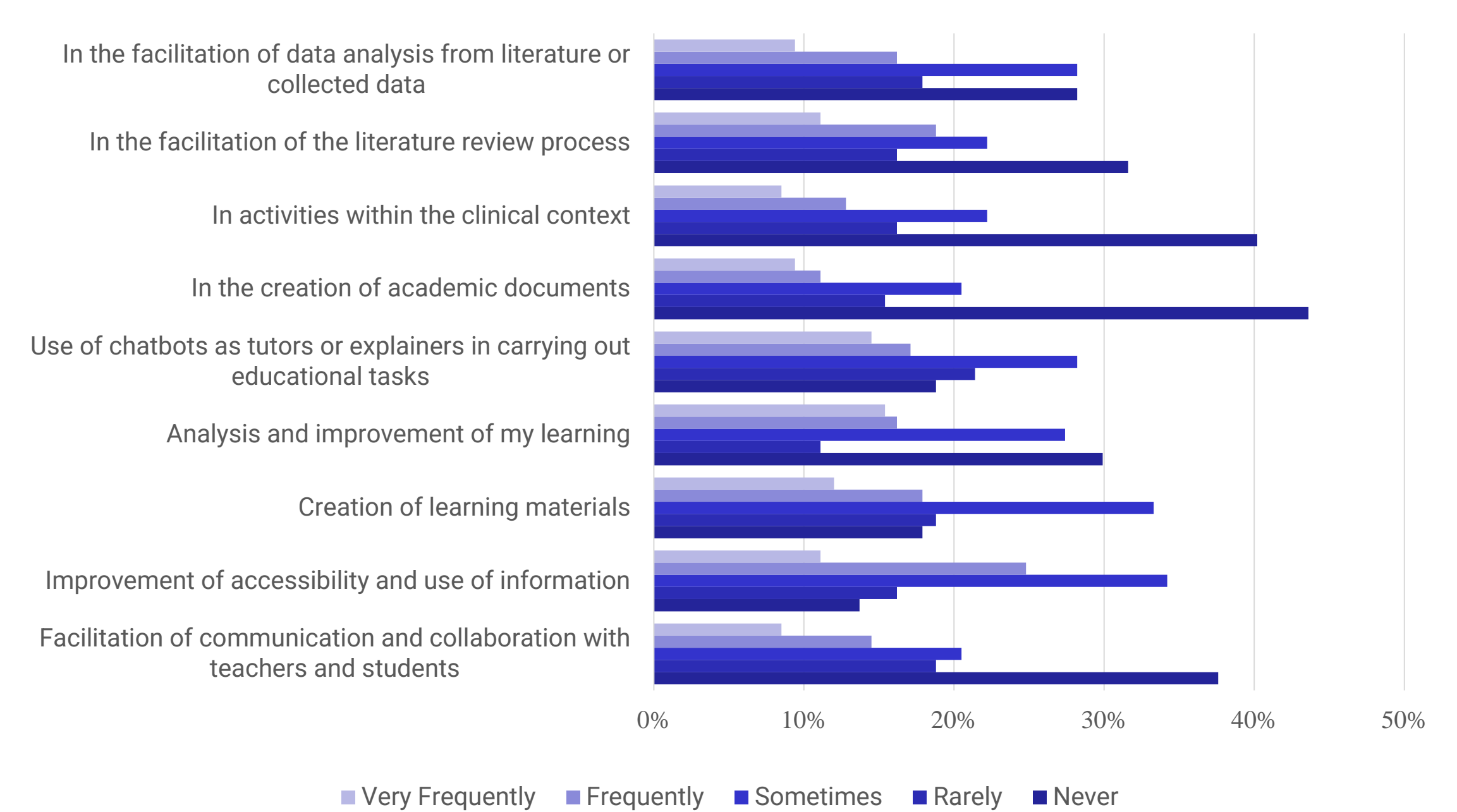
Perceive knowledge



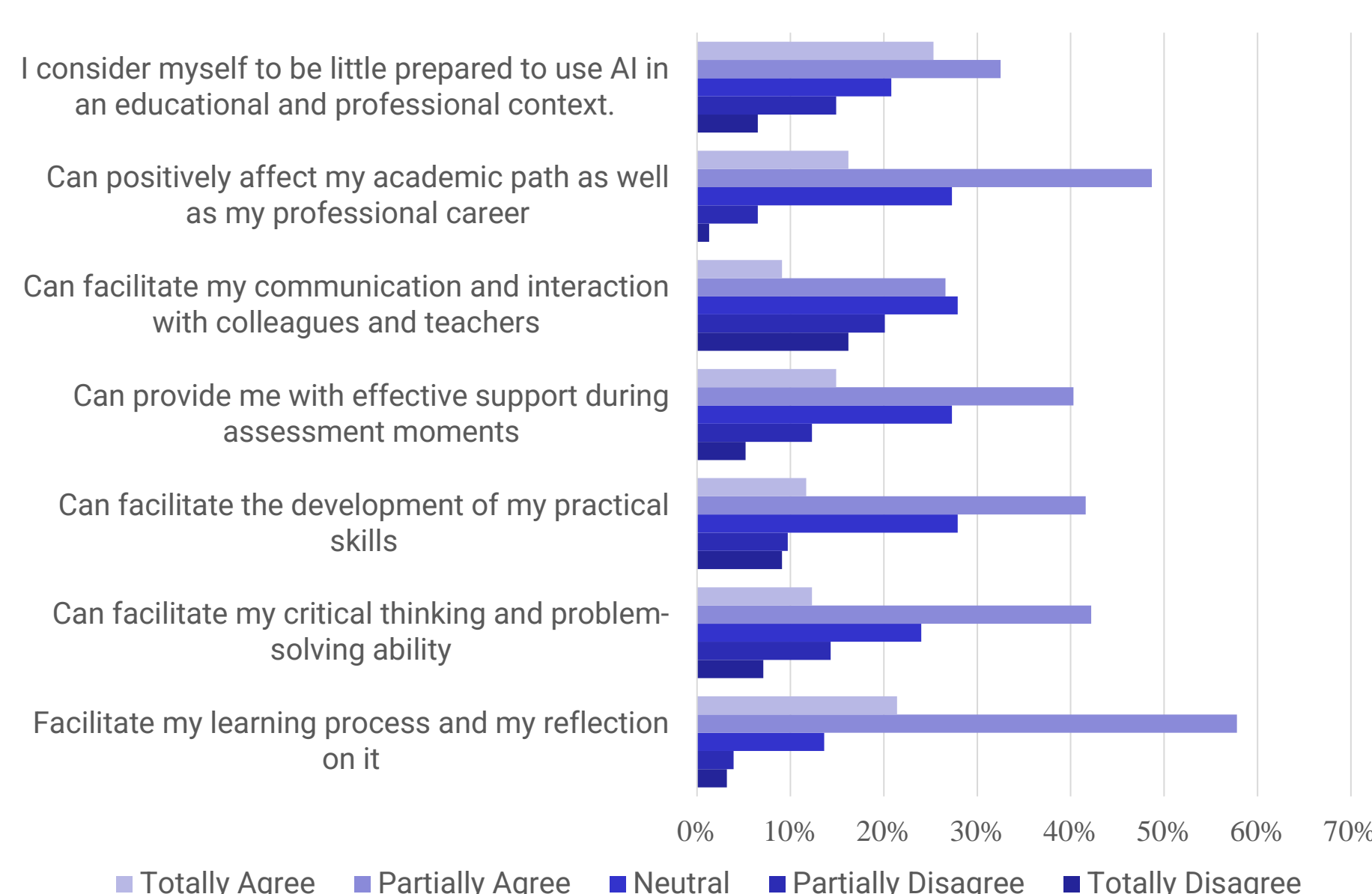
Frequency of Use



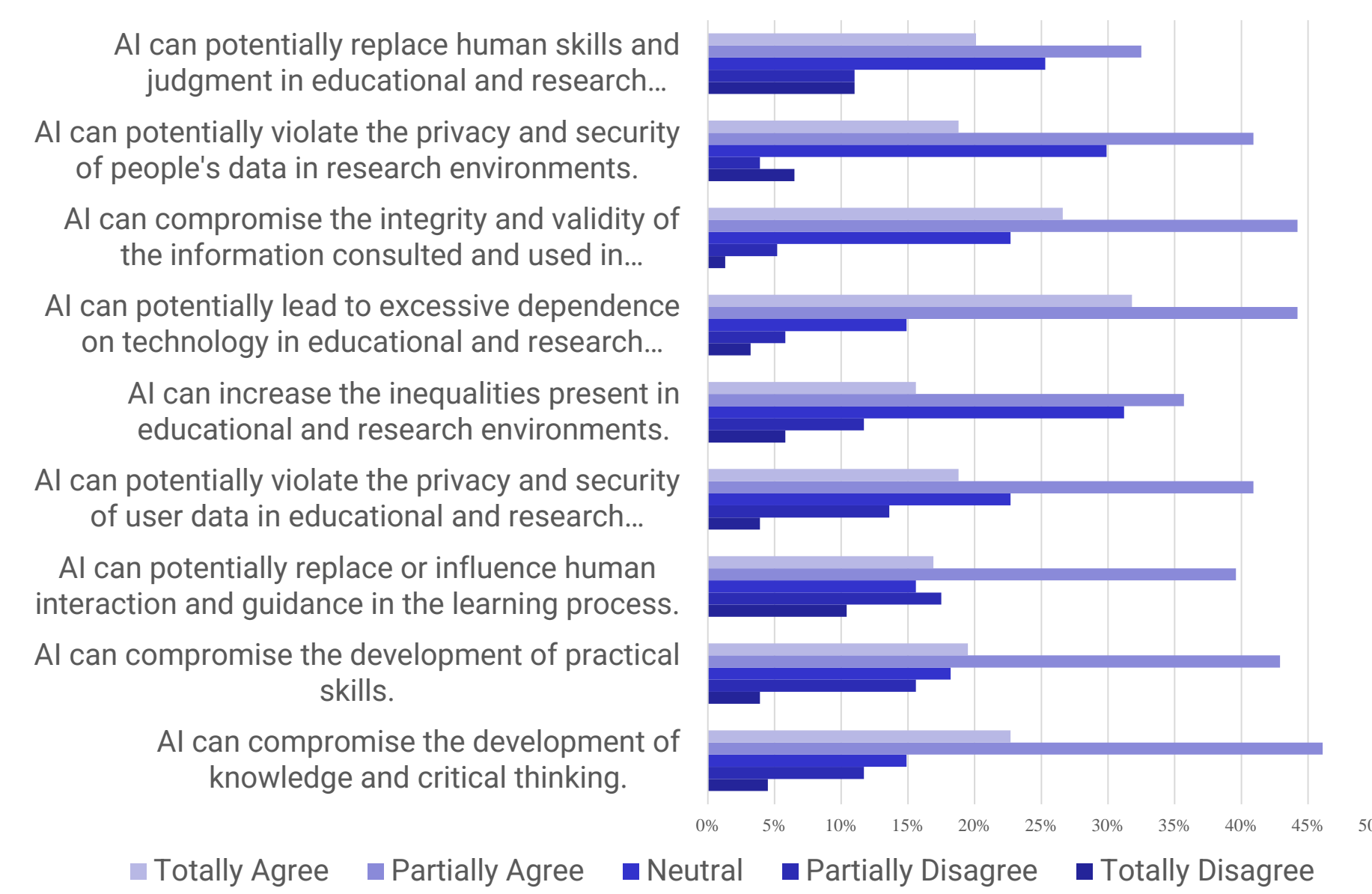
Type of Use



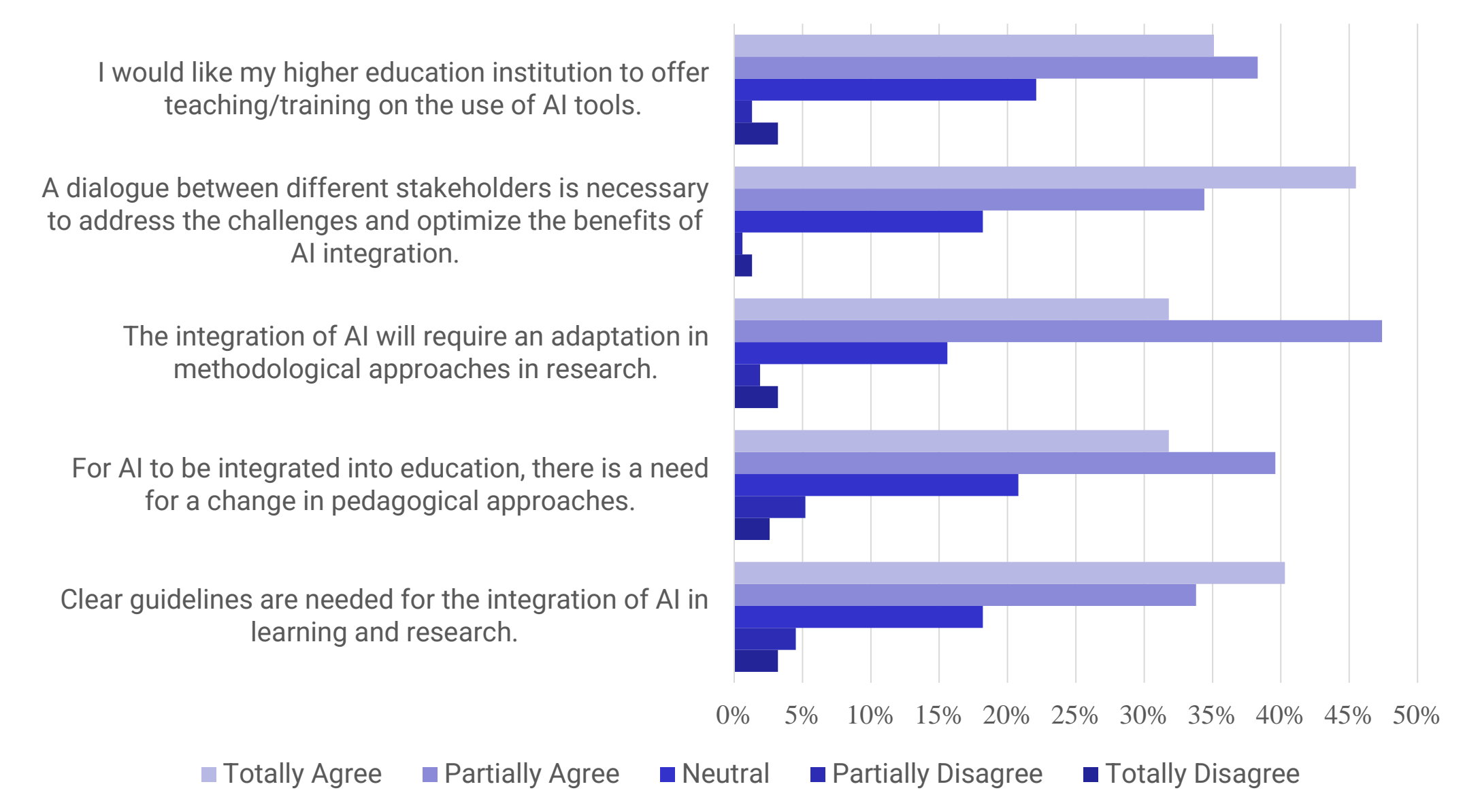
Attitudes and Perceptions



Concerns and Risk Perception



Perceived Needs



Conclusions

The study's findings emphasize the importance of integrating AI into healthcare education. Institutions should revise curricula to expand AI-related content and address student concerns. Clear ethical guidelines and practical experiences can enhance understanding of the technology and its professional applications.

This approach can help close the gap between current educational models and technological advancements in healthcare. By incorporating AI and considering student concerns, institutions better prepare future professionals for the job market and ensure quality patient care.

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