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ACADEMIC WRITING

ARGUMENTATIVE ESSAY:

AI TOOLS ENHANCE THE DEVELOPMENT OF CRITICAL THINKING SKILLS IN STUDENTS

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AI Tools Enhance the Development Of Critical Thinking Skills In Students.

In modern higher education, integrating technology with critical thinking is crucial. Students are using Artificial Intelligence or AI tools to enhance their critical thinking skills. Universities now prioritize critical thinking and problem-solving abilities over specific courses, addressing concerns about graduates' readiness. According to Jones (2019), AI solutions like conversational agents and intelligent tutoring systems offer personalized learning experiences, aiding students in problem-solving and fostering critical thinking skills.

Firstly, AI tools provide personalized learning experiences, adapting to individual student profiles by identifying strengths and weaknesses in real-time and offering customized assignments (Chaudhri et al., 2013). They also assist teachers in understanding student engagement and comprehension, enhancing teaching methods and learning objectives. This supports students in developing critical thinking abilities by catering to their specific learning needs and providing insightful feedback.

Furthermore, AI technology fosters problem-solving skills crucial for critical thinking. Educators can utilize AI to design interactive learning environments encouraging student participation and teamwork (Eboigbe et al., 2023; Umoga et al., 2024). AI-powered simulations and virtual labs allow students to experiment securely, fostering critical thinking and methodical problem-solving skills as they assess the results of their efforts.

While AI tools offer benefits in higher education, they also have drawbacks. Over-reliance can lead to passive learning, diminishing students' initiative and originality. AI-generated content may lack depth and perpetuate biases, raising ethical concerns such as access equity and data privacy. Educators must carefully balance the advantages of AI with the value of human-led instruction and engagement.

In summary, integrating technology with critical thinking is crucial in higher education today. AI solutions, such as intelligent teaching systems and virtual labs, enhance critical thinking skills. While universities prioritize critical thinking, over-reliance on AI may lead to passive learning. Balancing technology with traditional instruction is essential for effective education.

(299 words)

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