

# **Pengaruh Penerapan *Artificial Intelligence* Terhadap Kualitas Berpikir Kritis Mahasiswa Universitas Maritim Raja Ali Haji (Pendekatan *Unified Theory of Acceptance and Use of Technology*)**

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## **ABSTRAK**

Perkembangan *Artificial Intelligence* (AI) telah memberikan dampak besar dalam dunia pendidikan, termasuk di kalangan mahasiswa yang kini semakin bergantung pada teknologi tersebut dalam proses pembelajaran. Penggunaan AI memang dapat meningkatkan efisiensi dan akses terhadap informasi, namun juga menimbulkan kekhawatiran terhadap penurunan kemampuan berpikir kritis akibat ketergantungan yang berlebihan. Penelitian ini bertujuan untuk menganalisis pengaruh penerapan AI terhadap kualitas berpikir kritis mahasiswa Universitas Maritim Raja Ali Haji dengan pendekatan *Unified Theory of Acceptance and Use of Technology* (UTAUT). Penelitian ini menggunakan pendekatan kuantitatif dengan metode survei melalui penyebaran kuesioner kepada 100 mahasiswa aktif pengguna AI. Teknik analisis data yang digunakan adalah *Structural Equation Modeling-Partial Least Square* (SEM-PLS) dengan bantuan aplikasi SmartPLS. Hasil penelitian menunjukkan bahwa variabel *performance expectancy*, *effort expectancy*, *social influence*, dan *facilitating conditions* memiliki pengaruh terhadap *behavioral intention* dalam menggunakan AI. Selain itu, *behavioral intention* terbukti memediasi pengaruh dari variabel-variabel tersebut terhadap kualitas berpikir kritis mahasiswa meskipun *facilitating conditions* tidak signifikan. Temuan ini menegaskan pentingnya pemanfaatan AI yang bijak dan strategis dalam lingkungan kampus agar tidak hanya mendukung proses pembelajaran, tetapi juga tetap mendorong pengembangan daya berpikir kritis mahasiswa secara optimal.

**Kata Kunci:** *Artificial Intelligence*, UTAUT, berpikir kritis, mahasiswa, *behavioral intention*

***The Effect of Artificial Intelligence Implementation on the Critical Thinking Quality of Students at Raja Ali Haji Maritime University (Unified Theory of Acceptance and Use of Technology Approach)***

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**ABSTRACT**

*The development of Artificial Intelligence (AI) has had a significant impact on the world of education, including among students who are now increasingly dependent on this technology in the learning process. The use of AI can indeed improve efficiency and access to information, but it also raises concerns about a decline in critical thinking skills due to excessive dependence. This study aims to analyze the impact of AI implementation on the critical thinking quality of students at Raja Ali Haji Maritime University using the Unified Theory of Acceptance and Use of Technology (UTAUT) approach. The study employs a quantitative approach with a survey method, distributing questionnaires to 100 active AI users. The data analysis technique used is Structural Equation Modeling-Partial Least Square (SEM-PLS) with the assistance of the SmartPLS application. The results of the study indicate that the variables of performance expectancy, effort expectancy, social influence, and facilitating conditions have an influence on behavioral intention in using AI. Additionally, behavioral intention was found to mediate the influence of these variables on students' critical thinking skills, although facilitating conditions were not significant. These findings emphasize the importance of wise and strategic use of AI in the campus environment to not only support the learning process but also continue to promote the optimal development of students' critical thinking skills.*

**Keywords:** *Artificial Intelligence, UTAUT, critical thinking, students, behavioral intention*