

**ARTIFICIAL INTELLIGENCE BASED LEARNING TO  
ENHANCE STUDENTS' CRITICAL THINKING  
IN PANCASILA EDUCATION**

*(A Quasi-Experimental Study on Tenth Grade Students at SMA Kartika XIX-1 Bandung)*

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**ABSTRACT**

*This study, conducted at SMA Kartika XIX-1 Bandung, aimed to investigate the improvement of Critical Thinking among students in Pancasila Education by implementing Artificial Intelligence (AI) technology through the Canva application. The research adopted a quantitative approach with a quasi-experimental method and a nonequivalent control group design, analyzing pre-test and post-test scores from both experimental and control classes. The findings, derived from simple linear regression and an independent sample t-test, revealed that AI-based learning contributed a substantial 69% ( $R^2 = 0.690$ ) to the enhancement of Critical Thinking, with the remaining 31% influenced by crucial external factors such as student motivation and the teacher's teaching style. The independent sample t-test further confirmed a highly significant difference between the post-test scores of the two groups ( $p = 0.000 < 0.05$ ), clearly indicating the intervention's positive and effective impact. In conclusion, AI-based learning proved to have an effective and significant influence on Critical Thinking, making it a highly valuable learning innovation for Pancasila education in the digital era.*

**Keywords:** *Artificial Intelligence, Critical Thinking, Civic Education.*