

# STUDENTS' PERCEPTIONS OF THE USE OF ARTIFICIAL INTELLIGENCE IN ENGLISH WRITING LEARNING

Oleh:

Ongky Giovanny Bagus Arryanta

Wahyu Taufiq

English Language Education Study Program

Universitas Muhammadiyah Sidoarjo

July, 2026



# Background

English is an international language that plays an important role in communication, education, and technology.

Writing is considered one of the most difficult skills for EFL students because it requires vocabulary mastery, grammar accuracy, idea organization, and coherent sentence construction.

Many students still experience difficulties in expressing ideas and producing well-organized English texts.

Therefore, innovative learning technologies, including Artificial Intelligence (AI), are increasingly used to support English writing learning.

# Research Gap

Previous studies mainly focused on university students or general digital learning media.

Limited studies have investigated senior high school students' perceptions of multiple AI-assisted tools.

This study focuses on commonly used AI tools such as ChatGPT, Gemini, Claude, DeepSeek, DeepL, and Google Translate in English writing learning.

# Research Question

What are students' perceptions of the use of Artificial Intelligence (AI) tools in English writing learning?

# Research Objective

The objective of this study is to investigate students' perceptions of the use of Artificial Intelligence (AI) in English writing learning at SMA Muhammadiyah 2 Sidoarjo.

# Method

Research Design: Descriptive Quantitative

Research Method: Survey (Questionnaire)

Research Site: SMA Muhammadiyah 2 Sidoarjo

Participants: 28 students of Class X-3

Instrument: 20-item closed-ended questionnaire using a four-point Likert scale

Data Analysis: Frequency, Percentage, Mean, and Standard Deviation

# AI Tools Used by Students

| AI Tool          | Frequency |
|------------------|-----------|
| Gemini           | 14        |
| ChatGPT          | 11        |
| Claude           | 5         |
| Google Translate | 2         |
| DeepSeek         | 2         |

Gemini was the most frequently used AI tool, followed by ChatGPT, indicating students' preference for generative AI applications.

# Main Findings

The highest mean scores were:

- AI helps correct grammar (3.25)
- AI helps generate writing ideas (3.21)
- AI helps improve vocabulary (3.14)
- AI helps understand text structure (3.11)
- AI is easy to use (3.00)

These findings indicate that students viewed AI as beneficial for improving their writing skills.

# Overall Findings

- Overall Mean Score: 2.48
- Interpretation: Moderate

Students generally had moderate perceptions toward the use of AI in English writing learning. They appreciated its benefits while remaining aware of its limitations.

# Conclusion

- Students demonstrated moderate perceptions toward AI-assisted writing.
- AI provides valuable support in grammar, vocabulary, idea generation, and text organization.
- Students were not highly dependent on AI.
- AI should be integrated responsibly to enhance English writing learning.

