IMPROVING HISTORICAL LITERACY THROUGH SHORT STORY WRITING WITH THE HELP OF ARTIFICIAL INTELLIGENCE

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Abstract

This research explores the potential of Artificial Intelligence (AI) in enhancing historical short story writing to improve students' literacy and creativity. A qualitative research method with a case study approach was used, collecting data through interviews, observations, and document analysis. The findings indicate that AI is highly beneficial in writing historical short stories by providing quick access to historical facts, assisting in plot and character development, and improving the quality of writing through grammar and style checks. AI also supports students' creativity by offering fresh ideas and overcoming creative blocks. However, challenges like unequal access to technology and over-reliance on AI still exist. The research concludes that while AI can enrich the learning experience by making history education more engaging and interactive, human guidance remains essential for the optimal development of students.

Keywords: Historical Literacy, Short Stories, Artificial Intelligence.

INTRODUCTION

Education is important in shaping the character and abilities of individuals. History learning transfers past knowledge and develops critical thinking, creativity, and literacy skills. Technology, especially artificial intelligence (AI), has great potential to revolutionize education with personalized learning and interactive learning resources. as quoted by (Marrone et al., 2022).

With the development of computing and information processing techniques, artificial intelligence (AI) has been widely applied in educational practices (Artificial Intelligence in Education; AIEd), such as intelligent tutoring systems, teaching robots, learning analytics dashboards, adaptive learning systems, human-computer interaction, etc. (Hwang et al. 2020). The application of AI in educational practice has great potential to personalize learning, increase student engagement, and support the development of critical thinking and creativity skills. However, challenges related to infrastructure readiness and digital competencies still need to be overcome so that the application of AI in learning can run optimally.

Literacy skills have an important influence on the success of the younger generation. Literacy skills will help the younger generation understand oral and written information (Irianto & Febrianti 2017). This is to the statement that "History learning not only transfers past knowledge but also develops critical thinking, creativity, and literacy skills (Marrone et al. 2022).

Since participating in PISA in 2000, Indonesian students' reading literacy ability has been relatively low (Sari & Setiawan, 2023). Low interest in reading and monotonous learning methods contribute to low student literacy (Faridah, Saputra, & Ramadhani, 2023). This condition can negatively impact academic achievement and students' ability to understand and use information effectively and hinder their readiness to face future educational and world of work challenges.

Historical literacy is important for developing historical thinking skills (Firmansyah, Putri, & Hakim, 2022). Historical literacy is important for the younger generation to understand the events that shape the world today. Conventional methods are often less appealing. History learning, which requires a deep understanding of historical texts and narratives, is one of the areas most

affected by low literacy levels. Creativity is an important skill that needs to be developed in 21st-century education. Writing history-based short stories with the help of AI can improve historical literacy. AI helps make writing more engaging and interactive, allowing students to understand History creatively (Nurachmy Sahnir, Jamilah, & Heriyati Yatim, 2023).

While challenges such as technology readiness and teacher digital competence exist, AI offers great opportunities for learning personalization. This article discusses how AI in short story writing can improve students' historical literacy and identifies the benefits and obstacles to its implementation. With this article, it is hoped that it can provide new insights into the potential of artificial intelligence in supporting the history learning process through short story writing and identifying the benefits and obstacles that may arise in its application.

METHOD

This study uses a qualitative approach with case studies to explore the use of artificial intelligence in writing historical short stories. At least five types of qualitative research methods are widely used, namely: (1) observation involved, (2) conversation analysis, (3) discourse analysis, (4) content analysis, and (5) ethnographic data collection (Somantri 2005) Interviews delve into the perspectives of teachers and students, while observations look at the interaction and use of AI in the classroom. Documents such as lesson plans and short story examples are analyzed.

The data was analyzed using thematic techniques: transcription, coding, theme identification, and report preparation. Triangulation of sources and methods and *member checking* are used to ensure the validity of the data. The qualitative emphasis is on the data's validity and the correspondence between what is recorded as data and what happens in the studied context (Adlini et al., 2022). The research results are expected to provide new insights into the potential of AI in history learning and identify the benefits and obstacles to its application.

RESULTS AND DISCUSSION
I. Results
A. Support for Artificial Intelligence in Historical Short Story Writing

Artificial intelligence (AI) has great potential to support short story writing in History learning by providing tools that enrich students' writing skills, understanding of historical context, and creativity. Including:

1. Access to Information: AI quickly collects and presents relevant historical facts, making research easier for students.
2. Plot and Character Development: AI suggests in-depth plots and characters, helping students create complex and logical stories.
3. Writing Quality Improvement: AI checks grammar, spelling, and writing style and provides suggestions for improvement, helping students write more accurately and creatively.
4. Ideas and Inspiration: AI provides fresh ideas and compelling historical scenarios, helping students explore stories from different perspectives.
5. Personalized Feedback: AI tailors suggestions and feedback based on student needs, ensuring help is within individual ability.
6. Analysis and Constructive Feedback: AI analyzes students' short stories and provides feedback on strengths and weaknesses, helping to improve the quality of the story.

B. Application of AI-Based Short Story Writing to Increase Students' Creativity in History Learning

History teaching methods are often monotonous, decreasing students' interest and creativity. AI-based history short story writing is an innovative solution that helps students explore imagination, understand events from multiple perspectives, and relate History to their lives.

AI supports student creativity by providing story ideas, structure suggestions, and feedback. AI also helps to overcome creative blockades and improve the quality of writing through grammar, spelling, and writing style analysis. However, human guidance remains important for learning balance.

AI can provide fresh ideas and inspiration, helping students think outside conventional boundaries. AI processes data from various sources, generating unique perspectives and plot twists that drive innovation. AI also adjusts suggestions based on individual needs, provides real-time feedback, and becomes an effective partner in the creative process.

C. Improving Student Literacy through AI-Based Short Story Writing in History Learning

AI-based short story writing can improve students' literacy in History, including reading, writing, analysis, and critical thinking skills, as follows:

1. Writing Skills: AI helps develop writing skills through grammar and spelling detection features, which correct errors and enrich students' vocabulary.
2. Real-Time Feedback: AI provides immediate feedback on sentence structure and paragraph coherence, helping students improve their writing immediately.
3. Additional Information: AI provides historical data, character profiles, and event context, enriching students' stories with accurate and in-depth information.
4. Access to Reference Sources: AI offers access to historical articles, books, and documents, supporting more in-depth and comprehensive research.
5. Event Connectors: AI helps connect historical events logically and chronologically, ensuring a coherent and informative story.
6. Thus, AI not only corrects technical errors but also improves students' historical understanding and writing skills, building their confidence in writing.

D. Challenges and Opportunities of AI in Short Story Writing for History Learning

The challenges of AI in writing short stories for History learning are as follows:

1. Access to Technology: Many schools, especially in remote areas, lack the infrastructure to use AI, such as computers and stable internet.
2. Digital Competencies: Teachers and students need specialized training to use AI effectively in learning. Adjustments to the curriculum and teaching methods are also needed.
3. Technology Dependence: There is a risk that students will become overly reliant on AI, which can reduce their ability to think independently and creatively.

The opportunities for AI in short story writing for History learning are as follows:

1. Writing Skills Improvement: AI provides feedback on grammar, spelling, and writing style, as well as tailoring assistance according to the student's ability level.
2. Increases Creativity: AI offers creative ideas, scenarios, and characters, helping students develop imaginative and immersive stories.
3. Interactive Learning: AI makes History learning more engaging through simulations, quizzes, and AI-based games, increasing student engagement.
4. Critical Thinking Development: AI provides in-depth feedback on students' writing and helps analyze historical texts, improving their understanding and analysis.

II. Discussion

A. Support for Artificial Intelligence in Historical Short Story Writing

AI has great potential in historical short story writing by providing quick access to historical facts, aiding in plot and character development, and improving the quality of writing through grammar and writing style checks (Fang et al., 2023). AI technology offers high efficiency and productivity and provides fresh ideas, inspiration, and feedback tailored to students' needs. In addition, AI technology not only offers high efficiency and productivity, but it can also provide fresh ideas and inspiration for writers (Suariqi Diantama 2023)

Based on the research results in the field, the use of artificial intelligence (AI) in writing historical short stories has proven to provide significant support for students. This aligns with Malik's opinion that integrating Artificial Intelligence (AI) essay writing in education has

become a significant area of concern. AI-driven stationery has become a useful tool for students and writers, offering a wide range of capabilities to aid the writing process (Malik et al., 2023).

Research shows that AI can provide fast and accurate access to relevant historical information. This is very helpful for students in ensuring the accuracy of the historical facts used in their short stories. Students no longer have to spend a lot of time doing manual research, so they can focus more on the creative aspects of writing.

In addition, AI has also proven to be effective in helping students develop plots and characters. AI can provide suggestions regarding interesting story structures and in-depth character development by analyzing various literary works' text and narrative patterns. This support is very helpful for students as beginner writers who may still struggle to design cohesive storylines and complex characters.

In terms of writing quality, field research shows that AI can detect and correct grammatical, spelling, and writing style errors with high accuracy. This feedback not only corrects technical errors but also improves the quality of the short stories. Students feel an improvement in their writing style and better understand how to write more effectively and professionally.

AI also provides new ideas and inspiration to enrich students' creative processes. By analyzing millions of texts, AI can offer various perspectives and ideas that students may not have considered. This inspiration is often a valuable starting point in historical short story writing, helping students to break out of creative impasse and explore new themes.

Finally, research shows that AI provides personalized feedback tailored to each student's needs. AI can understand students' styles and preferences and provide more relevant and specific suggestions. It assists students in gradually developing their skills with the continuous support of AI.

Overall, the research results in the field show that AI is not only a technical tool but also a creative companion that can improve the quality and efficiency of historical short story writing. The support of AI in every stage of the writing process, from research to revision, shows how technology can contribute positively to literature and education, helping writers produce better and more meaningful work.

B. Penerapan Penulisan Cerpen Berbasis AI untuk Meningkatkan Kreativitas Siswa

AI increases student creativity by providing story ideas and structure suggestions and overcoming creative blockades. This emphasizes the importance of external stimulation and balancing challenges in the creative process (Dawani, 2023). Although AI aids learning, research on its impact on student learning experiences is still limited, so the role of teachers remains important (Chiu et al., 2023).

Based on interviews and observations, artificial intelligence (AI) has been proven to significantly increase students' creativity in writing historical short stories. AI can provide a variety of story ideas that spark students' imaginations, providing a strong foundation when they have difficulty finding initial ideas. In addition, AI provides suggestions regarding the structure and storyline, helps students structure stories with logical and interesting plots, and provides feedback on character development and dialogue. AI also helps students overcome creative blockades by offering suggestions and story development possibilities to keep the creative process flowing.

As an external stimulus, AI provides new challenges that encourage students to think outside the box and explore new possibilities in writing, creating a balance between challenge and comfort essential for developing creativity. In addition, AI provides constructive feedback during the revision process, identifying weaknesses in students' writing and providing specific suggestions for improvement, helping them improve their work and develop better writing skills.

Research shows that AI can be a very effective tool in enhancing students' creativity helping them reach their full potential in creative writing.

C. Improving Student Literacy through AI-Based Short Story Writing in History Learning

AI improves students' literacy by improving their writing skills, providing real-time feedback, and providing access to in-depth historical information (Song & Song, 2023). This emphasizes the importance of contextual understanding and revision in developing literacy skills.

Based on the results of observations and interviews in the field, artificial intelligence (AI) has been proven to improve students' literacy in History learning significantly. AI improves students' writing skills by providing real-time feedback that helps them identify and correct grammatical, spelling, and sentence structure errors. With direct feedback, students can quickly understand their mistakes and learn to write better and more effectively.

Additionally, AI provides access to in-depth historical information, allowing students to conduct more comprehensive and accurate research. With AI's ability to analyze and present historical data in detail, students can better understand historical context, which is crucial in writing historical essays or short stories. This accurate and in-depth information helps students build strong arguments and support their writing with relevant facts.

AI also aids in developing literacy skills by emphasizing the importance of contextual understanding and the revision process. When students receive feedback from AI, they are encouraged to revise their writing, which is an important part of literacy skills development. This revision process helps students to think critically about their writing, correct mistakes, and improve the overall quality of their work.

Further, AI can provide resources and references relevant to the studied historical topic, helping students broaden their horizons and understand various perspectives. AI's ability to present information from multiple points of view also improves students' critical analysis abilities, which are essential in History learning.

While AI provides significant support, the role of teachers remains crucial in guiding and helping students interpret the information provided by AI. Teachers can provide additional context and ensure students understand and use the information effectively in their writing.

Thus, observations and interviews show that AI can be a very effective tool in improving students' literacy in History learning. By improving writing skills, providing real-time feedback, and providing access to in-depth historical information, AI helps students develop their literacy skills comprehensively and effectively, making them better writers and critical learners.

D. Challenges and Opportunities of AI in Short Story Writing for History Learning

Challenges in AI integration include unequal access to technology and the need for digital competencies. Reliance on AI can also reduce student creativity. However, AI offers opportunities to improve writing skills, creativity, and learning engagement (Marrone, Taddeo, & Hill, 2022). With the right strategy, AI can enrich students' learning experience in writing historical short stories.

Based on research results, integrating artificial intelligence (AI) in short story writing for history learning faces several challenges, but it also offers significant opportunities. One of the main challenges is uneven access to technology. Not all students have the same access to adequate devices and internet connections, which can hinder the optimal use of AI.

There is a gap in access to technology in various regions. Not all schools, especially in remote areas or with inadequate economic conditions, have adequate technological infrastructure, such as the availability of computers, internet, and AI devices. Students from different socio-economic backgrounds have unequal opportunities to access and utilize AI technology to support their history learning. For example, schools in urban areas generally find it easier to implement AI chatbots in writing historical short stories. In contrast, schools in rural areas still experience obstacles related to the availability of devices and adequate internet connections.

To overcome these challenges, efforts are

needed to equalize access to technology throughout the region and wisely manage the use of AI so that there is no over-dependence. Teachers must be able to integrate AI in a balanced manner with conventional learning methods so that students still have room to develop their critical thinking skills and creativity while studying History.

On the other hand, this transformative surge in AI in education signals a shift towards a more responsive and adaptive learning environment, optimizing language acquisition and teaching to suit the nuanced needs of each learner and educator. At its core, AI is a combination of technologies that allow machines to mimic cognitive functions related to the human mind, such as learning and problem-solving (Malik dkk. 2023).

With the right application of AI, the potential to enrich students' learning experiences and improve their historical literacy can be realized. However, human guidance remains important for optimally developing students' abilities. Using AI without wisdom, like driving a car without brakes, will, of course, end in an accident that harms many parties (Misnawati Misnawati, 2023).

In addition to the above, another challenge is the need for digital competence, where students and teachers must have sufficient knowledge and skills to use AI technology effectively.

Overreliance on AI can also raise concerns about the potential for reduced student creativity. If AI is not managed properly, students will rely more on suggestions and feedback from AI than on developing their creative ideas and solutions. This can reduce students' ability to think independently and originally, so they lose the opportunity to use their ideas and writing styles while writing historical short stories.

On the other hand, the potential for using AI in history learning must also be considered so there is no over-reliance on technology. If AI is not managed properly, students can lose the ability to think critically and analytically in understanding History. They rely too much on the information provided by AI chatbots without independently searching and analyzing.

AI offers great opportunities to improve writing skills, creativity, and learning engagement. AI can provide real-time feedback that helps students correct grammatical, spelling, and sentence structure errors, thereby improving the quality of their writing. With access to in-depth historical information, AI also assists students in conducting more comprehensive and accurate research, enriching the content of the historical short stories they write.

Additionally, AI can spark creativity by providing a variety of story ideas and innovative structure suggestions. This can help students with trouble finding initial ideas or developing a cohesive storyline. Feedback from AI can also encourage students to continuously revise and improve their writing, which is an important part of the creative process.

With the right strategy, AI can enrich students' learning experience in writing historical short stories. For example, it can ensure that the use of AI is complemented by teacher guidance to maintain a balance between technological assistance and the development of students' creative skills. Teachers can play a role in helping students interpret AI feedback and encouraging them to stay critical and creative in their thinking.

By addressing the challenges of access to technology and digital competencies and maintaining a balance in using AI, education can leverage this technology to enrich the teaching and learning process and develop better literacy skills among students.

CONCLUSION

Research shows that artificial intelligence (AI) supports the writing of historical short stories by facilitating access to information, assisting in plot and character development, and improving the quality of writing through grammar checks and personalized feedback. AI also boosts students' creativity by providing fresh ideas and inspiration and overcoming creative blockades, although human guidance is still needed.

AI-based short story writing can also improve students' literacy in history subjects. AI aids in developing writing skills, understanding historical contexts, improving reading and

analyzing texts, and encouraging critical and reflective thinking. With personalized learning and increased motivation, AI creates a more supportive and effective learning environment.

Implementing this technology requires careful planning and adequate support to address existing challenges, such as unequal access to technology and over-reliance on AI. However, integrating short story writing for history learning offers a great opportunity to improve students' writing skills, creativity, and literacy.

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