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Impact of Artificial Intelligence (AI) on Students' English Learning Motivation

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Abstrak | Bahasa Indonesia

Artikel ini membahas pengaruh Artificial Intelligence (AI) terhadap motivasi belajar bahasa Inggris siswa. Perkembangan teknologi AI seperti ChatGPT, Grammarly, dan aplikasi pembelajaran digital memberikan pengalaman belajar yang lebih interaktif dan fleksibel. Penelitian ini menggunakan metode descriptive qualitative dengan pendekatan literature review. Hasil penelitian menunjukkan bahwa penggunaan AI dapat meningkatkan motivasi, kepercayaan diri, dan partisipasi siswa dalam pembelajaran bahasa Inggris. Namun, penggunaan AI secara berlebihan juga dapat menyebabkan ketergantungan belajar. Oleh karena itu, penggunaan AI perlu didampingi oleh guru agar pembelajaran tetap efektif dan seimbang.

Kata Kunci: Artificial Intelligence; English Learning; Learning Motivation; Technology in Education

Abstract | English

This article discusses the impact of Artificial Intelligence (AI) on students' English learning motivation. The development of AI technologies such as ChatGPT, Grammarly, and digital learning applications provides a more interactive and flexible learning experience. This study used a descriptive qualitative method with a literature review approach. The findings showed that the use of AI could improve students' motivation, self-confidence, and participation in English learning. However, excessive use of AI may also create learning dependency. Therefore, the use of AI should still be guided by teachers to maintain balanced and effective learning.

Keywords: Artificial Intelligence; English Learning; Learning Motivation; Technology in Education

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1. INTRODUCTION

The development of technology has greatly influenced the education sector, especially in English language learning. Artificial Intelligence (AI) applications such as ChatGPT, Grammarly, and Duolingo are increasingly used to support students in learning English more interactively and flexibly. Motivation is an important factor in successful English learning. However, many students still experience difficulties in vocabulary, grammar, speaking, and writing skills.

Traditional learning methods sometimes make students feel bored and less motivated during the learning process. To solve this problem, AI-based learning tools can create a more interesting and student-centered learning environment. AI allows students to learn independently, receive instant feedback, and access learning materials anytime and anywhere. Therefore, this article aims to analyze the impact of Artificial Intelligence (AI) on students' English learning motivation in the digital era.

This article is a review article using a descriptive qualitative approach. The article discusses the impact of Artificial Intelligence (AI) on students' English learning motivation based on previous studies, journals, books, and related academic sources. Data and information were collected from several reliable references regarding the use of AI technologies such as ChatGPT, Grammarly, and digital learning applications in English language learning.

According to Creswell (2014), qualitative research is used to understand social phenomena and describe issues based on existing data and theories. In addition, Snyder (2019) explained that review articles aim to analyze, summarize, and synthesize findings from previous studies to provide broader understanding of a topic. Therefore, this article focuses on analyzing how AI can influence students' motivation, participation, and learning experiences in English education.

The development of technology has greatly influenced the education sector, especially in English language learning. Artificial Intelligence (AI) applications such as ChatGPT, Grammarly, and Duolingo are increasingly used to support students in learning English more interactively and flexibly. These technologies have transformed traditional learning environments by providing innovative approaches that facilitate communication, collaboration, and independent learning. As digital technology continues to evolve, AI has become one of the most significant innovations in modern education.

In recent years, the integration of AI into language learning has attracted considerable attention from educators and researchers. AI-powered learning systems can provide personalized learning experiences by adapting learning materials to students' individual needs, proficiency levels, and learning styles. Unlike conventional classroom instruction, AI allows learners to access educational resources anytime and anywhere, making learning more flexible and student-centered. Consequently, AI has become an important tool for enhancing the effectiveness of English language learning in the digital era.

Motivation is widely recognized as one of the most important factors influencing language learning success. Students who possess high learning motivation tend to demonstrate greater participation, persistence, and confidence in the learning process. Motivation encourages learners to engage actively in classroom activities and continuously improve their language skills. Therefore, understanding factors that can enhance students' motivation is essential for achieving successful English language learning outcomes.

Despite the growing availability of digital learning tools, many students still experience difficulties in mastering English language skills, including vocabulary, grammar, speaking, and writing. Traditional learning methods sometimes make students feel bored, passive, and less motivated during the learning process. As a result, learners may face challenges in maintaining consistent engagement and achieving their desired language proficiency levels. These issues highlight the need for more innovative and engaging learning approaches that can support students' language development.

Artificial Intelligence offers potential solutions to these challenges by creating more interactive and personalized learning environments. AI-based applications can provide instant feedback, adaptive exercises, automated language assistance, and opportunities for self-directed learning. Features such as gamification, progress tracking, and real-time correction can increase students' engagement and encourage them to participate actively in learning activities. Previous studies have reported that AI technologies contribute positively to students' learning experiences and academic performance in language education.

Several researchers have found that AI-supported learning environments can improve students' motivation, autonomy, and confidence in learning English. However, findings regarding the impact of AI on English learning motivation remain diverse and continue to develop alongside technological advancements. Therefore, a comprehensive review of existing literature is necessary to synthesize current knowledge and provide a deeper understanding of the relationship between AI and students' learning motivation.

Based on these considerations, this article aims to analyze the impact of Artificial Intelligence (AI) on students' English learning motivation in the digital era. By reviewing findings from previous studies, this article seeks to explore how AI technologies influence students' motivation, participation, engagement, and overall learning experiences in English language education.

2. METHOD

This article used a descriptive qualitative method with a literature review approach. The study focused on analyzing the impact of Artificial Intelligence (AI) on students' English learning motivation based on previous studies and academic sources. The data were collected from books, scientific journals, and related articles discussing AI technology in education, especially in English language learning.

The literature review approach was chosen because it allows the writer to identify, analyze, and summarize findings from previous studies related to the research topic. The sources used in this article include national and international journals, books, and academic publications related to Artificial Intelligence, motivation, and English language learning. The data collection process was conducted by selecting relevant references published in recent years to ensure the accuracy and relevance of the information.

After collecting the data, the writer analyzed the information descriptively by comparing and interpreting the findings from previous studies. The analysis focused on how AI applications such as ChatGPT, Grammarly, and Duolingo influence students' motivation, participation, confidence, and learning experiences in English learning. The results of the analysis were then presented systematically to provide a clear understanding of the role of AI in modern education.

According to Creswell (2014), qualitative research aims to understand and describe social phenomena through detailed analysis and interpretation. In addition, Snyder (2019) stated that a literature review method is useful for identifying and evaluating previous studies to develop broader understanding of a particular topic.

3. RESULT AND DISCUSSION

3.1 Result

The findings showed that Artificial Intelligence (AI) has a positive impact on students' English learning motivation. AI applications such as ChatGPT, Grammarly, and Duolingo help students learn English more interactively and flexibly. Students can access learning materials anytime and anywhere, which makes the learning process more enjoyable and effective.

Previous studies also revealed that AI-based learning tools improve students' participation and confidence in learning English. Qu and Wu (2024) stated that ChatGPT can increase students' engagement and motivation because it provides instant feedback and interactive communication. In addition, Guan, Li, and Gu (2024) found that AI supports independent learning and creates a more student-centered learning environment.

3.2 Discussion

The use of AI in English language learning provides several advantages for students. First, AI helps students improve vocabulary, grammar, writing, and speaking skills more easily. Students can practice independently without feeling afraid of making mistakes in front of teachers or classmates. This condition increases students' confidence and motivation during the learning process.

Second, AI creates a more flexible learning environment. Students can use AI-based applications through smartphones or laptops anytime they want. This flexibility makes learning more interesting and supports self-directed learning. Mayer (2009) explained that technology and multimedia learning can improve students' understanding and engagement in learning activities.

However, the use of AI also has some challenges. Excessive dependence on AI may reduce students' critical thinking and creativity because students may rely too much on automatic answers provided by AI tools. Therefore, teachers still have an important role in guiding students to use AI wisely and responsibly in education.

Overall, AI can be an effective tool to support English language learning motivation if it is used appropriately and balanced with teacher guidance.

4. CONCLUSION

Based on the discussion, Artificial Intelligence (AI) has an important role in supporting students' English learning motivation in the digital era. AI applications such as ChatGPT, Grammarly, and Duolingo provide interactive, flexible, and accessible learning experiences for students. Through these technologies, students can practice vocabulary, grammar, speaking, and writing skills more independently and confidently.

AI also helps students receive instant feedback, which makes the learning process more effective and engaging. In addition, the use of AI can increase students' participation and interest in learning English because the learning process becomes more enjoyable and less monotonous compared to traditional learning methods. AI-based learning tools also support self-directed learning, allowing students to study anytime and anywhere according to their learning needs.

However, the use of AI in education should still be supervised wisely. Excessive dependence on AI may reduce students' critical thinking skills and creativity if students rely too much on automatic answers provided by AI applications. Therefore, teachers still play an essential role in guiding students to use AI responsibly and effectively during the learning process.

In conclusion, Artificial Intelligence (AI) can become an effective learning support tool in English education when used appropriately and balanced with teacher guidance. The integration of AI in education is expected to help create more innovative, motivating, and student-centered learning environments in the future.

Furthermore, findings from various previous studies indicate that AI has the potential to enhance not only students' motivation but also their learning autonomy, engagement, and overall language proficiency. Personalized learning features, adaptive feedback systems, and interactive learning environments enable students to become more active participants in the learning process. As highlighted by recent research, AI-supported language learning can create meaningful learning experiences that encourage learners to take greater

responsibility for their own academic progress while reducing anxiety often associated with foreign language learning. These benefits demonstrate that AI can contribute significantly to the development of more effective and learner-centered English language education.

Nevertheless, the successful implementation of AI in English learning requires adequate digital literacy, ethical awareness, and pedagogical support from educators. Educational institutions should provide appropriate training for both teachers and students to maximize the benefits of AI technologies while minimizing potential risks, such as overreliance on automated systems, academic dishonesty, and reduced critical thinking opportunities. Therefore, future educational practices should focus on establishing a balanced collaboration between human teachers and AI technologies. Such collaboration can ensure that technological innovation enhances, rather than replaces, the essential human aspects of teaching and learning. Future researchers are also encouraged to conduct empirical studies examining the long-term impact of AI on students' motivation, academic achievement, and language learning outcomes across different educational contexts. Through responsible and effective integration, Artificial Intelligence is expected to play an increasingly important role in shaping the future of English language education in the digital age.

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