

IMPLEMENTATION OF USE DEEP ARTIFICIAL INTELLIGENCE (AI). GUIDANCE AND COUNSELING STUDENT LEARNING PROCESS

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Abstract

This research was inspired by the use of Artificial Intelligence (AI) in student guidance and counseling. Artificial Intelligence (AI) is a system that continues to develop and is innovative in the field of study, created both on machines and computers that have the same level of intelligence, perhaps even more than humans. Guidance and Counseling Services in schools, Artificial Intelligence (AI) systems have great potential to be used as supporting services. The use of AI in this context aims to help increase the effectiveness, accessibility and responsiveness of guidance and counseling services for students. Here are some ways in which AI can be utilized namely Guidance and Counseling Chatbots. This research aims to determine the use of AI in guidance and counseling students. This research uses a research method in the form of a literature study. The research results obtained have seen many guidance and counseling students applying AI. AI has great potential to improve the efficiency and effectiveness of education systems. Several types of AI that can be used in education include Canva, Google Meet, Zoom, Mozilla Firefox, ChatGPT, etc. Academic ethics is very important to pay attention to and adhere to in the world of education, so that the goals of education can be achieved.

Keywords: Artificial Intelligence (AI), Learning Process, Guidance and Counseling

1. Introduction

Rapid technological developments and have created new connections between various fields, resulting in phenomena unprecedented in industrial history. This phenomenon is known as industrial transformation 4.0. Artificial intelligence technology, often referred to as Artificial Intelligence (AI), is an integral part of this change. The transformation of Industry 4.0 is closely related to progress in the production sector, while Society 5.0 emphasizes the central role of humans in innovation by optimizing the results and technological impact of Industry 4.0.

Specifically in Guidance and Counseling Services in schools, Artificial Intelligence (AI) systems have great potential to be utilized as service supports. The use of AI in this context aims to help increase the effectiveness, accessibility and responsiveness of guidance and counseling services for students. Here are some ways in which AI can be utilized, namely Guidance and Counseling Chatbots, Monitoring Student Welfare, Career and Education Recommendations, Social and Emotional Skills Development, Student Data Analysis, and Online Counseling.

The ITE Law emphasizes that the implementation of artificial intelligence (Electronic Agents) in Indonesia can only be carried out by individuals, state officials, business entities and the general public. This means that operators of electronic systems providing artificial intelligence services will be legally responsible. Technology has a significant impact on human life, especially in the context of education. This progress has brought us into the era of the fourth industrial revolution. Industrial Revolution 4.0 is part of technological developments that automate most fields, including education.

Today's artificial intelligence or what is commonly known as Artificial Intelligence has brought about huge changes in reality and influenced the way people work, learn and

communicate in life. This artificial intelligence refers to the capacity of machines to demonstrate a level of intelligence and perform various tasks that require human-like thinking abilities. Examples of several levels of intelligence and carrying out various tasks in student life are Chat GPT, Canva, Slides Go, Capcut, Grammarly, Paraphrase, Google Meet, Zoom, and many other applications that support work with the help of Artificial Intelligence (AI). The development of science and technology (IPTEK) is growing rapidly. This e-learning learning process is carried out by the entire community, especially students. This e-learning can be interpreted as lecturers and students connected to each other via the internet network. Online learning is a learning model that utilizes information and communication technology.

One of the fastest types of advances in science and technology is artificial intelligence technology. Artificial Intelligence (AI) is a technology that humans can use as assistants to move like robots. However, Artificial Intelligence (AI) is only a virtual representation in a computer system. Due to its broad scope, Artificial Intelligence (AI) technology can be used in many fields. The world of education may accept Artificial Intelligence (AI) technology. (Farid et al., 2023) states that Artificial Intelligence (AI) is a computer system designed to interact with the world through human intelligence capabilities and behavior. Artificial Intelligence (AI) is a technique that allows computers to perform the same types of cognitive tests as those performed by humans and animals (Millington & Funge, 2009). Another impact of using Artificial Intelligence (AI), for example using Canva, Capcut, Chat GPT, Slides Go, and so on, can make students unable to think critically and creatively and become dependent. It cannot be denied that the presence of Artificial Intelligence (AI) can bring a breath of fresh air, especially to the world of education. Using artificial intelligence without being wise is like a motorbike without brakes, of course if it is running very fast it will be detrimental to many parties.

The legal basis regarding the implementation of the use of Artificial Intelligence (AI) is contained in the 1945 Constitution of the Republic of Indonesia, Article 28 C, which reads "Every person has the right to develop himself to meet his basic needs, has the right to obtain education and obtain the benefits of science and technology, arts and culture, in order to improve the quality of life and for the welfare of humanity." This is also regulated in Law Number 11 of 2019 concerning the National System of Science and Technology, which states that: "To guarantee that everyone has the right to obtain the benefits of Science and Technology which aims to improve the quality of life, welfare and dignity nation."

Based on research conducted by Zahara et al., (2023) entitled "Implementation of Artificial Intelligence (AI) in the Education Sector", the results show that the implementation of AI technology in the education sector makes it easier for educators in the administrative field such as determining final grades based on weights and assessment, creating more effective learning, and making the tasks of teachers and students easier in teaching and learning activities.

Based on research conducted by (Muhammad Yahya, et al., 2023) entitled "Implementation of Artificial Intelligence (AI) in the Field of Vocational Education in the Era of Industrial Revolution 4.0", the results showed that the Implementation of AI in vocational education is expected to increase efficiency, quality, and the relevance of vocational education to industrial needs in the Industrial Revolution 4.0 era. However, it is important to remember that the role of teachers and educators remains important in guiding students, implementing effective learning strategies, and providing added value that cannot be replaced by AI. Although AI has a positive impact in vocational education, it is important to balance this with the still important role of humans. Teachers and educators have a crucial role in providing guidance, emotional support, development of social skills, and holistic assessment of students. Developing and strengthening

these competencies will help in designing, implementing, and managing effective AI solutions in vocational education. It is important to continue to improve understanding and skills in the fields of AI and education to face the challenges and opportunities that arise as technology develops.

Based on research conducted by (Moh. Anang Abidin, 2023) entitled "Implementation of Artificial Intelligence (AI) Technology to Support Student Learning at Madrasah Ibtidaiyah Krembung Sidoarjo Regency", the results show that Artificial Intelligence (AI) is a type of intelligent system that plays a big role in the way people interact with information in their personal and professional lives, and can change the way people find and use information in schools and academia. Over the past few decades, AI-based systems have radically changed the ways that humans interact with information, and with increasingly new and integrated technologies, students of the future will likely have a very different experience conducting research and finding facts than with current students. The existence of AI technology is a breakthrough in the field of educational technology to facilitate learning. Wise and controlled use of technology can trigger the acceleration of education. The emergence of artificial intelligence technology can also instill an independent nature in students. Educators are not burdened with a dominant role, however, their duties are specific in the scope of providing enlightenment and facilitation for students. The basis of every use of technology for educators is to continue to prioritize the essence of teaching, namely managing student morals and behavior. Meanwhile for students, educational technology can help them control and monitor their own learning, enabling them to live and work well in the future.

Several studies above confirm that the use of Artificial Intelligence (AI) that creates applications can be useful and can be applied in the learning process among both elementary school students and middle school students. Based on the explanation above, the aim of this research is to determine the use of Artificial Intelligence (AI) in the learning process for guidance and counseling students.

2. Method

In this research, the researchers used a literature review research method. Library research is an activity carried out systematically to collect, process and conclude data using certain methods or techniques to find answers to problems faced through library research (Khitbah, 2011). Library research is a study used to collect information and data with the help of various types of materials in libraries such as documents, books, magazines, historical stories, and so on (Danandja, 2014). The data collection method used in this research is the documentation method. Documentation techniques are searching for and collecting data regarding data in the form of notes, books, articles, journals, and so on. This research uses data analysis techniques, namely content analysis techniques.

3. Results and Discussion

Artificial intelligence is a product of the process of technological progress. The current use of AI is not limited to certain scopes, starting from the office sphere, the educational sphere and even its use has spread to the world of entertainment. The features offered by AI include automatic editing, facultative data collection. AI can actually have a positive impact on human work because the presence of AI can help human work. This research aims to determine the level of use of AI in guidance and counseling students. Analyze AI-based applications that are often used by students.

In this research, the results of this research are an analysis of the use of AI in students. The parameters of the research are the level of students' understanding of artificial intelligence, the frequency of using AI in learning activities, and the impact of AI on student learning. It is hoped that this research can have a positive impact on the learning process of students, especially those who use artificial intelligence media, so that it can provide developments in the world of education in the future, especially in the guidance and counseling department.

The use of artificial intelligence technology is increasingly widespread among pupils, students and workers. However, in this research the author will be more inclined to discuss the learning process of guidance and counseling students at Sjech M. Djamil Djambek Bukittinggi State Islamic University. After a questionnaire survey was conducted, the author found that as many as 85.2% of counseling guidance students knew what Artificial Intelligence (AI) was or what is usually called AI and the remaining 15.8% chose the option of not knowing about Artificial Intelligence (AI). As many as 25.9% of respondents chose the option of often using Artificial Intelligence (AI) as a medium to help complete lecture assignments and another 63% of respondents admitted that they rarely, and the rest chose to never use Artificial Intelligence (AI) in completing their assignments.

The use of human artificial intelligence technology in the learning and assignment process can be said to be quite helpful in easing students' tasks and assisting in the efficient process of completing assignments, such as writers easily accessing and finding relevant data information based on existing sources. The platform in Artificial Intelligence (AI) that is often used in learning is virtual tutoring, where students can understand lecture material, as well as provide detailed explanations accompanied by training in mastering material concepts through platforms such as Zoom and Google Meet. Some feel helped and some don't, because all of this actually comes from their own perspective in facing technological advances in today's digital era.

Artificial Intelligence (AI) platforms to help with assignments. However, it can still be denied that if there are people who have never really used Artificial Intelligence (AI), this could happen because students feel they are still able to think critically and in accordance with the theory they have known through class meetings with the lecturer during the lesson. Artificial Intelligence technology or artificial intelligence technology created by humans.

When talking about Artificial Intelligence Technology that is often used, there are not just one or two AI platforms created by humans to make human work easier. In contrast, Artificial Intelligence (AI) has various types, where each platform has different uses and functions. This time, the author would like to explain several platforms that are often used by students in the course of university life based on a survey that the author has conducted. The use of artificial intelligence is a hot topic in the world of education, and GPT Chat is one of them. This platform is an artificial intelligence tool that offers several benefits, including increased student engagement, collaboration, and accessibility (Farwati et al., 2023)

The other platform used, namely Google Meet, is a web-based course whose use requires a completely separate internet connection between students and lecturers because there is no need for face-to-face learning (Harahap, 2019). The results discussed show that Artificial Intelligence (AI) has great potential to play a vital role in supporting students with learning disorders and helping them achieve their maximum potential. In terms of students' emotional aspects, the use of Artificial Intelligence (AI) technology can help build self-confidence in learning outcomes. Human artificial intelligence technology can create a fun and comfortable

learning environment, helping to increase self-confidence and reduce anxiety in the learning process.

However, the author believes that inappropriate or less focused use of Artificial Intelligence (AI) can affect thinking patterns due to habituation to the instant assistance provided by Artificial Intelligence (AI). In addition, it is necessary to be aware of the risks of accessing personal data and privacy through Artificial Intelligence (AI) platforms, which are vulnerable to data breaches. Nonetheless, studies by Crompton and colleagues show that Artificial Intelligence (AI)-based educational interventions are effective in reducing student anxiety.

Additionally, Artificial Intelligence (AI) technology can provide many benefits to students in improving productivity, organizational management, and remote work. This can help reduce the burden of repetitive tasks, reduce costs, and increase consistency in learning. As such, Artificial Intelligence (AI) has the potential to have a positive impact on students' anxiety, helping them develop the skills and confidence necessary to succeed in a university environment.

4. Conclusion

From the previous discussion, it can be concluded that. Many guidance and counseling students have applied AI. AI has great potential to improve the efficiency and effectiveness of education systems. Several types of AI that can be used in education include Canva, Google Meet, Zoom, Mozilla Firefox, ChatGPT, etc. Academic ethics are very important to pay attention to and adhere to in the world of education, so that the goals of education can be achieved. The use of AI can be utilized in the world of education to improve the interactive and fun educational process. But we must remain alert to the negative impacts of using AI if it is not used wisely, such as violations of plagiarism and academic ethics. Apart from that, it can reduce the student's critical, creative and innovative attitude. Given the negative impacts of using AI, lecturers must prepare strict regulations in handling the negative impacts of using AI. It is hoped that with the existence of regulations and rules in understanding academic ethics, pupils and students can develop knowledge by utilizing AI as needed, and can develop reasoning, creative and innovative powers for the progress of the nation and state.

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