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Socialization of the Use of Chat GPT in Increasing Village Community Resources

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Abstract

Recently, the topic of AI has been on the rise. The AI hashtag was trending on Twitter. AI is an acronym for Artificial Intelligence or in Indonesian it is called artificial intelligence. AI is actually a field of computer science that focuses on solving cognitive problems or related to human intelligence, such as problem solving and pattern recognition. This ability, which seems like human intelligence, is controlled by a system controlled by a robot or computer. ChatGPT (Generative Pre-training Transformer) is an artificial intelligence system supported by AI that enables text-based conversational interactions. ChatGPT has various functions, including language translation, providing recommendations, increasing productivity, and assisting in improving village community resources. Therefore, the aim of this community service is to see the potential for using ChatGPT to help improve Village Community Resources in Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra. In obtaining the data used were observation and literature review. This service activity is an educational effort to use ChatGPT to help increase community resources in Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra. This effort was motivated by the lack of knowledge about the use of AI (Artificial Intelligence), especially ChatGPT in the community, which could increase the resources of the Aek Pancur village community itself. As a form of the author's thoughts, the efforts and breakthroughs made are offered, which can provide real benefits for the people of Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra in obtaining the latest information and actively participating in village development.

Keyword : *AI(Artificial Intelligence), ChatGPT (Generative Pre-training Transformer), Village*

INTRODUCTION

Technological developments are currently developing very rapidly. In the last few months, the topic of AI has been hotly discussed by the public. AI (Artificial Intelligence) is a technology designed to make computer systems able to imitate human intellectual abilities. AI allows computers to learn from experience, identify patterns, make decisions, and complete complex tasks quickly and efficiently (Ismail, 2023). AI is actually a field of computer science that focuses on solving cognitive problems or related to human intelligence, such as problem solving and pattern recognition. This ability, which seems like human intelligence, is controlled by a

system controlled by a robot or computer. One of the AI technologies that has gone viral and has been talked about a lot by people recently is ChatGPT (EGSA, 2023).

According to Lyman (2023) ChatGPT (Generative Pre-training Transformer) is an artificial intelligence that works using a conversation format. by asking this type of AI a question and it can automatically get an answer in a short time. This feature can also be called a chatbot provided by Open AI, a non-profit AI company founded in 2015 by Elon Musk and a group of well-known figures in Silicon Valley such as Sam Altman and Reid Hoffman. This service is claimed to be able to carry out various tasks in a short time. Recently, Google also created their own version of ChatGPT which is known as Google Bard. Some examples of using GPT Chat are to help answer Mathematics questions, make jokes, and even present Excel formulas (Maulid, 2023).

Several studies or experiments using the ChatGPT chatbot have been published in several journals and sites. In line with research by Zhai (2023) who experimented with creating an article of approximately 5,830 words entitled "Artificial Intelligence for Education". As someone who is also an expert in the field of artificial intelligence, Zhai assesses that machine-generated articles are coherent, relatively (partially) accurate, informative and systematic. The chatbot's ability to provide the required information is also more efficient than humans in general, and its writing ability is above the average student. The process needed for Zhai to produce the article was only 2-3 hours, including minor editing and reorganization of the article (Setiawan, *et. al.*, 2023).

ChatGPT is a natural language model (NLP) developed by Open AI. This model has the ability to produce text that is similar to text written by humans. This makes Chat GPT a potential tool for use in various applications, including detecting hoaxes. The rise of inaccurate information or hoaxes is one of the issues currently being hotly discussed in society. This has caused various negative impacts, such as unrest in society, social disintegration, and even economic losses (Fajrillah, *et. al.*, 2023).

ChatGPT also has the ability to correct its own answers, if it feels that the answers given are not appropriate. There are several alternative answers provided in one question or keyword. You can get the best answer if you enter the right and appropriate keywords or prompts (Triusparini, 2023). According to Khumaidi, *et. al.* (2023) ChatGPT has been aimed at being a tool in various scenarios, such as assisting in completing tasks, providing information, producing creative content, and more. In a rural context, ChatGPT can help create instant publications on village websites so that information can be conveyed quickly and easily to village communities. Apart from that, ChatGPT can also help in increasing efficiency and productivity in public services in villages. The introduction of ChatGPT and its benefits for villages needs to be understood by village communities and village officials to maximize its use (Puspitasari, *et. al.*, 2023).

In line with Sudirjo *et. al.* (2023) ChatGPT used to validate information has become a topic that has attracted the attention of many parties. For example, research has been carried out to apply ChatGPT in analyzing customer sentiment in business. Several community service activities and research activities have been carried out previously which are relevant to this theme. In addition, ChatGPT's success in diagnosing rare medical conditions in seconds also shows the great potential of this technology (Datu, 2023).

Aek Pancur Village, located in Tanjung Morawa District, Deli Serdang Regency, is an example of a village that still needs to improve access to information and technology. Limited infrastructure and geographical remoteness are the main obstacles in providing equal access to information for all village residents. Therefore, the use of appropriate information technology can be a solution to increase information accessibility in Aek Pancur Village itself.

In the context of community service, technological developments can provide great opportunities to make a positive contribution to increasing community resources, especially in rural areas. Like Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra, it still faces challenges in accessing information and technology. Limited infrastructure and geographical accessibility often become obstacles in providing equitable information services to village residents. Community service is an important concept for implementing academic knowledge and expertise with the real needs of village communities. Through this approach, academics can play an active role in making positive contributions to society, especially

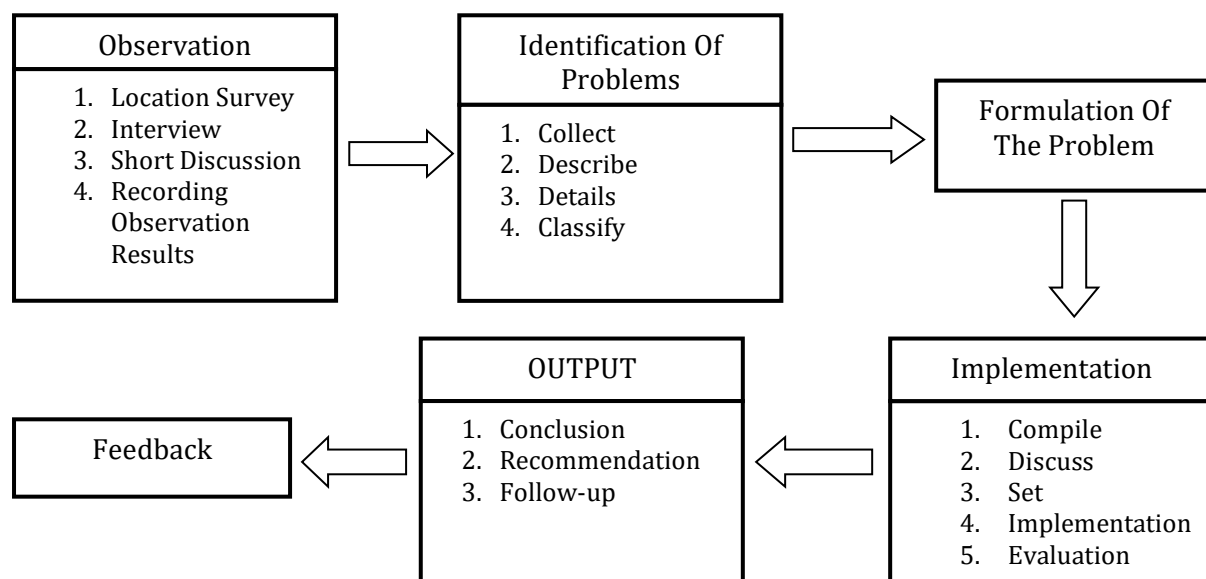
in rural areas which often face challenges with information and technology accessibility (Damayanti, *et. al.*, 2023).

When the author carried out community service in Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra, the author encountered problems experienced by the people of Aek Pancur Village, namely the lack of information and socialization that the use of ChatGPT could increase the Community Resources of the Aek Pancur Village Community itself.

Therefore, the author believes that by holding socialization regarding the use of ChatGPT, it can provide education and knowledge to the people of Aek Pancur Village who previously had minimal information. It is hoped that this will be of real benefit to the people of Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra in obtaining the latest information. and actively participate in village development.

METHODS

Table 1.
Problem discovery and problem solutions



1. Identification of problems

The author conducted surveys and interviews with Aek Pancur village residents, community leaders and village officials to find out the challenges they will face in accessing information and technology. Data will be collected to identify key information needs and barriers that hinder information accessibility in the village.

2. Socialization and Education

The author carries out outreach and education to village residents. The author will explain the aims and benefits of using ChatGPT to village residents, community leaders and village government. This outreach will help build awareness and participation of village residents in this project. In addition, researchers will provide direct assistance to village residents in using the village website publication platform and interacting with the chatbot system. This assistance will help village residents understand and take full advantage of the potential of ChatGPT for the Aek Pancur Village residents' website.

3. Training and Technical Guidance

To improve village residents' understanding and skills in using village websites, the author will organize training and technical guidance. This training will involve an introduction to the instant village website publication platform, the features available, and how to interact with the chatbot

system. The author will provide practical guidance with examples of relevant use according to village needs. In addition, individual or group technical guidance will be provided to villagers to ensure they can operate the platform smoothly and gain maximum benefits.

4. Evaluation and Monitoring

Evaluating and monitoring the use of village websites and chatbot systems. The evaluation method is in the form of questions and answers with the training participants, this aims to find out the obstacles or difficulties of the participants as well as the level of understanding received by the participants regarding ChatGPT training activities to improve the abilities of Aek Pancur Village officials, Tanjung Morawa District, Deli Serdang Regency, North Sumatra. Through this method, it is hoped that village websites can provide better access to information, strengthen village community participation, and improve their quality of life.

DISCUSSION

The results of this community service are providing the important benefits of using ChatGPT in improving the quality and resources of the Community of Aek Pancur Village, Tanjung Morawa District, Deli Serdang Regency, North Sumatra, who previously had minimal information, now know information about ChatGPT.

This Community Service Activity carries the theme "Socialization of the Use of ChatGPT which can increase Community Resources in the Aek Pancur Village Community". The activity began by providing material explaining what ChatGPT is and the uses of ChatGPT and how this artificial intelligence-based language model can be used to interact with users through text conversations. After delivering the material, participants continued with direct practice by following the guidance of the presenter who guided the training activities.

The first socialization was to introduce the features provided by ChatGPT to make it easier for participants to use ChatGPT. The next socialization is that the participants are taught to make orders to ChatGPT by making a news script about activities carried out in the village, making the contents of a report on the realization of the use of village funds, then about the contents of the report at the end of the village head's term of office, and finally about the RKPBDs. By presenting the material, it is hoped that participants can understand the concept and benefits of ChatGPT better. Before ending the activity, a question and answer session was held with the participants conducted by the presenter with the aim of evaluating the participants' understanding of the material presented by the presenter.

This activity is carried out by giving participants the opportunity to ask and answer questions related to the material presented by the presenter. By conducting question-and-answer evaluation activities with participants during training activities, it is hoped that participants can understand the material that has been provided better and can apply the material more effectively.

Based on observations and questions and answers carried out during the activity, ChatGPT training activities to improve village web publication capabilities produced the following results:

1. Increasing participants' knowledge and abilities regarding the use of ChatGPT in facilitating villages in making instant publications on the village website.
2. Participants can deepen the concepts and benefits of ChatGPT through reading materials or additional references provided.
3. Participants can understand how ChatGPT works and how artificial intelligence technology is used in ChatGPT.
4. Participants can receive and understand the training material provided and follow the practice of using ChatGPT well.
5. Participants can understand, follow and practice directly using ChatGPT.
6. This socialization activity was attended by 20 participants. The response from the training participants was very good and positive because the participants were able to feel the benefits of ChatGPT training activities to improve village web publication capabilities instantly to Aek Pancur Village officials, Tanjung Morawa District, Deli Serdang Regency, North Sumatra.

The presence of ChatGPT can also raise critical questions, especially in a religious context, where some parties question how ChatGPT can ensure the accuracy and validity of the religious information provided (Fahmi, 2023). According to Fajrillah, *et. al.* (2023) the benefits of using GPT Chat include:

1. Helps users learn and understand various topics.
2. Helps users produce creative content, such as poetry, stories and scripts.
3. Help users translate Languages.
4. Help users find the information they need.

As ChatGPT has good benefits for its users. Of course, using ChatGPT also has risks in its use. According to Purwarianti (2023) using ChatGPT also has several risks, including:

1. The information provided by ChatGPT may be inaccurate or biased.
2. ChatGPT may be used to generate false or misleading content.
3. ChatGPT can be used to commit plagiarism.

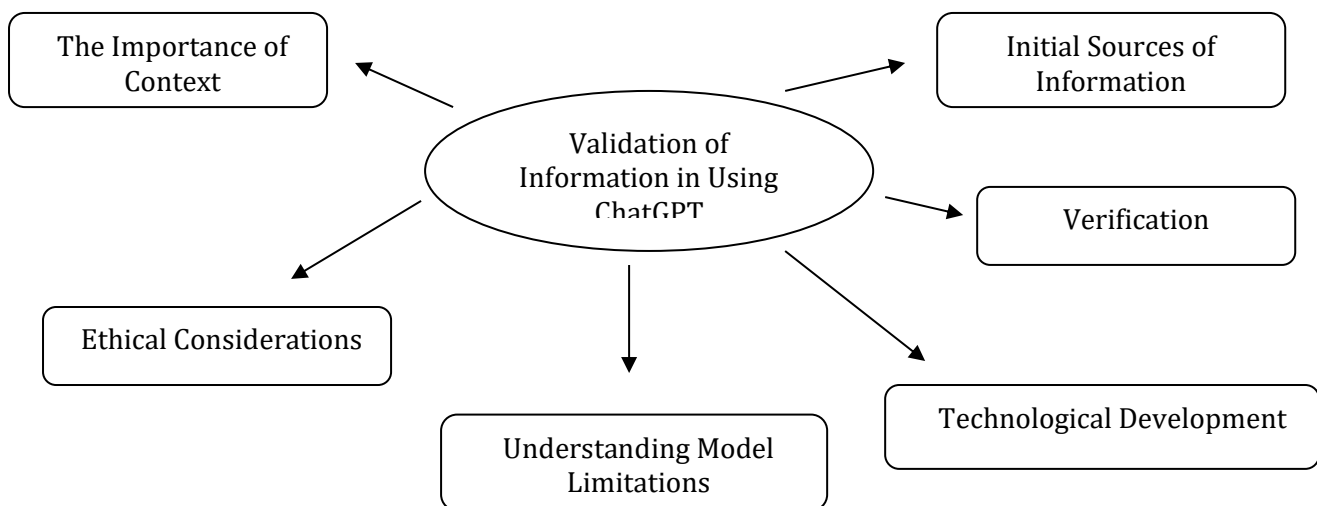
Therefore, it is important for users to validate the information provided by ChatGPT (Darman, 2024). Validation can be done by:

1. Compare the information provided by ChatGPT with other more reliable sources
2. Conduct your own research to ensure the correctness of the information
3. Use common sense to assess whether the information provided by ChatGPT is reasonable.

It's important to remember that models like ChatGPT are tools and do not replace human wisdom in assessing or verifying information. Its use should be done with a good understanding of the applicable ethical limitations and considerations. Validation of information from reliable sources remains an important step in ensuring the accuracy and reliability of information. The use of ChatGPT and validation of information can include quotations from research results that strengthen the importance of applying this technology in various fields, as well as critical questions that need to be answered regarding the use of ChatGPT in religious, educational, health and other contexts (Lund *et. al.*, 2016). This will provide a strong foundation for understanding the background of the problems being resolved and issues related to the theme of service activities.

According to Rahman, *et. al.* (2023) Several considerations that need to be taken into account when validating information when using ChatGPT include:

Table 2.
Considerations that need to be taken into account when validating information when using ChatGPT



1. Initial Sources of Information

Models like ChatGPT generate responses based on the training data given to them. Therefore, the accuracy of the information depends on the diversity and quality of the training data. This model does not directly check or verify information, and the information provided may not always be an accurate representation of the facts.

2. Verification

It is important to always verify the information provided by models such as ChatGPT through reliable sources, especially for important decisions or critical information.

3. Technological Development

Language models such as ChatGPT continue to experience development and improvement. Therefore, the information produced by the latest version may be better than the previous version.

4. Understanding Model Limitations

Language models have limitations in terms of knowledge and context. If a question or command is too complex or beyond the model's capacity, the response may not be optimal or may be misleading.

5. Ethical Considerations

Using this model requires paying attention to ethical aspects, especially in terms of providing information that is correct and not misleading.

6. The Importance of Context

Often, questions that are more specific and given with clear context are more likely to elicit accurate and relevant responses.

CONCLUSION

Based on the explanation above, it can be concluded that this Community Service Activity has broadened the knowledge of village officials and the Aer Pancur Village community in that using ChatGPT can open insight and information regarding better access to information, strengthen village community participation, and improve their quality of life. Socialization of the use of ChatGPT to increase the resources of the Aer Pancur village community currently still has many obstacles such as:

1. Lack of knowledge of village officials and the Aer Pancur village community regarding the appropriate use of information technology regarding the use of ChatGPT so that it is hoped that it will be a solution to increase information accessibility in Aek Pancur Village.
2. Lack of infrastructure that can facilitate village community accessibility in accessing information regarding the use of ChatGPT.
3. It is felt that the role of the village government is not yet optimal in the application of the village website, so it is hoped that after socializing the use of ChatGPT, Aer Pancur village can utilize and put into practice the knowledge that has been given properly so that the community's resources can make good and correct use of the use of ChatGPT.

EXPRESSING OF THANKING

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