

Knowledge Sharing Implications of the Emergence of GPT Chat on Learning Methods at SMP 4 Muhammadiyah Depok, West Java

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ABSTRACT

This presentation aims to describe the activities of the Community Partnership Program or PKM carried out at SMP 4 Muhammadiyah Depok, West Java. This activity took the topic of the Contribution and implications of Chat GPT to learning methods in the digital era. This activity is carried out by socialization, discussion and practice methods. The result obtained was that Chat GPT turned out to greatly influence the learning method at SMP 4 Muhammadiyah Depok. Teachers worry about their students not using technology wisely. To overcome these problems, our team provides hands-on practice in the responsible and plagiarism-free use of GPT Chat. In addition, we also provide the practice of making power points to teachers so that the material provided to students can be more interesting in learning. GPT chat has both positive and negative impacts depending on how humans use it.

KEYWORDS

Learning methods;
Chat GPT;
Digitization;
Teacher;
Wise



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1. Introduction

In this era of globalization, the role of actors in international relations is no longer statically centered on the state but emerging actors other than the State such as multinational companies, NGOs, government organizations such as the United Nations that enliven global interactions in international politics. The complexity of international relations has resulted in the pattern of interaction in international relations to be not only limited to the pattern of relations or interactions between states, but can also occur between states and individuals, ethnic groups, professional organizations, technology, business, culture, and international and transnational organizations grouped into non-state actors. Of course, this dynamic is seen not only as one of adding to the variant of international relations actors but also their influence in various aspects of economic, political, even security and sovereignty stability in various countries of the world in the context of the role of actors. Thus, globalization accompanied by rapid advances in communication technology causes relations between nations, between societies and between individuals to be closer, interdependent and influence each other so as to create a borderless world that seems to have formed a global village for the world community. Interaction relations between countries in the past we know the term "high politic" which focuses its study on the study of war and peace, where this study becomes a dark story for the study of relations international. However, over time and the dynamics of global problems, non-mainstream issues have turned into "low politics" where contemporary international relations studies have expanded their studies such as: gender, poverty, environment, human rights, and transnational crimes such as cybercrime, money laundering, geographical national boundaries, and other issues. One of the issues discussed in many countries is related to the issue of technological development that not only causes, but also encourages even faster changes. The changing times bring currents to the development of human civilization which is increasingly dominated by digitalization technology. Technological progress is not new to modern world man. Since the existence of the internet and computers, the development of the IT world is growing rapidly. We are now in the era of the industrial revolution 4.0. That is, this era is an all-digital era in every way [1]–[4].

On the one hand, current technological developments have actually contributed a lot in human life, especially in facilitating human work. Many activities are facilitated by the presence of technology and its

development. But on the other hand, it is undeniable that the development of this technology has provided good and bad changes. On the one hand, with technology, the world seems to lose its "boundaries" and become increasingly interconnected. All things such as communication, transportation, and others can be done more quickly, easily, and cheaply. But on the other hand, the advantages arising from technological developments also have their own negative impacts. Today, technology is becoming more and more complicated to understand. In fact, in some cases, technology becomes more difficult to control. Finally, technological developments that are too fast and massive even become a threat to humans themselves, including in the field of education.

Related to this, the presence of technology has had an impact on the education system in Indonesia. Digitalization in this field has brought rapid progress in the aspect of learning resources with the birth of mass media and electronic media as sources of knowledge and educational centers. The presence of technology has changed the stigma that teachers and schools are not the only sources of knowledge. Especially when considering the presence of the Covid-19 pandemic in the world, where many schools are switching to an online system and asking students to attend in a series the online class. This development in fact changed the education mecca that was previously "Education" to "Edutainment", which conditions have changed the educational scheme in the planning system, strategies and methods teaching [2]. In fact, with this technological advancement, the world of education is facing new threats regarding the existence of teachers, the credibility of teachers and students, to can the field of education catch up with the speed of economic development? With all the threats that exist, teachers are faced with the challenges of advancing the IT world. Teachers are required to better master technology in order to provide the best understanding they have to their students and avoid cheating that can be done his learners.

One of the latest technological advances in the form of artificial intelligence is Chat GPT [5]. Chat GPT is an Open AI variant of the Generative Pre-Training Transformer (GPT) model that appeared in late 2022 [6]. Chat GPT is a continuation of artificial intelligence in the field of writing after Quillbot, Sudowrite, Jasper, etc [7]. Chat GPT is a chatbot software launched by an open AI platform with text command conversation capabilities and provides answers to the needs of users who access it[8], where this platform It offers a human-like form of conversation, but the difference is that the answer is in the form of automatic text [9].

This artificial intelligence can be used to facilitate human tasks including language translation, text completion, to answer questions [10]. Its ability to manage data, access data, interpret data, provide structured and complete data also often makes the public uproar and amazed [11]. Because Chat GPT is believed to make human work easier and the issue will shift the function of Google [12]. As we know, Google is a platform to access all data and information [13]. When the user will search for the desired data, Google will expose a variety of existing data, then the user must search and filter it again one by one [14]. Another thing with Chat GPT, where when users access the desired data in the form of a chatbot, Chat GPT will briefly expose it in full text format without having to open the page one by one again [15].

The data presented varies depending on the needs of the user, for example Chat GPT can make poems, describe an object, write essays, make problems, provide complete formulas, make music and much more [16]. Even this GPT Chat can survive questions in complicated categories [17]. The structure and grammar presented are in accordance with existing rules, there are various languages available according to the user's country of origin [18]. The main functions of Chat GPT help human work to be easier such as: providing information providers, providing solutions, increasing productivity, helping workers, helping education and much more [19].

When viewed from its history, Chat GPT can be said to be the result of an educational push in the field of technology [20]. Education and technology have been around for a long time starting from printing presses, calculators, computers, spell checkers, the internet, Wikipedia and many more [21]. And now, Chat GPT has become a new infrastructure in helping for learning media [22]. Where the current generation is increasingly massive in the use of technology which then the technology itself refers to as a learning medium [23]. It is undeniable that civilization is currently dominated by technology-based so that the world of education must also adopt technology in its education system. Even if education is still unfamiliar in digitalization, it will be a concern [24]. Then thus the implications of GPT Chat with education will provide progress and facilitate the teaching and learning process [25]. Chat GPT can help

teaching staff in expanding material and information which will then become material for the teachings of their students. If teaching staff find it difficult to access the data information needed, Chat GPT will offer complete data in a short time, so that work will feel more efficient and more accurate [26]. Similarly, students will find it helpful in doing assignments and deepening knowledge with this GPT Chat [27]. The implications of using Chat GPT in the education system will provide progress and facilitate the teaching and learning process [28]. Examples of activities that will facilitate the learning process through Chat GPT are helping to process data and access complete data, create structured RPS / Curriculum, create materials for Power Point that have been adjusted in order for each slide, find answers to problems that are difficult to solve, provide complete formulas and much more [29].

However, as it develops, there are many views of the pros and cons of the emergence of Chat GPT [30]. Many argue that this technology is a form of human progress, human intelligence in creating artificial intelligence that can help human work. However, some argue that this artificial intelligence is a threat, especially for academics because of Chat GPT's ability to solve questions and various questions. However, this intelligence does not support the cited source in answering the question so that there is a high tendency for plagiarism [31].

From the explanation above, it is clear that technology has driven many changes [32]. Nowadays, technology with all the conveniences provided has become an inseparable part of life [33]. Various groups and generations, especially Generation Z who are directly exposed to technological developments, are actively using these changes [34]. Therefore, the use of technology including artificial intelligence is inevitable.

However, it is undeniable that not all circles have sufficient awareness of the development of artificial intelligence. This can be seen, especially among older people such as Generation Y or Millennials, including among teachers. The condition in which teachers who are actually teachers, who also have a lot of direct contact with Generation Z, experience "blindness" to technology is certainly a concern. Not to mention by reconsidering the various implications of artificial intelligence on learning. Therefore, it is important for teachers to improve their literacy and capability in knowing and applying these technologies.

In this community service, the team will focus on Chat GPT and the implications that artificial intelligence has on learning. The samples taken were teachers at SMP 4 Muhammadiyah Depok who were still not familiar with Chat GPT. It is hoped that after the implementation of this knowledge sharing activity, teachers at SMP 4 Muhammadiyah can understand and apply Chat GPT well. So that then teachers can also anticipate the changes that Chat GPT will provide in learning activities.

2. Method

This activity is carried out as a form of academic social responsibility to improve and improve learning methods. This is based on learning methods that are currently still conventional and rely on teachers as the main source of knowledge. This activity was carried out as a form of collaboration between the PKM FISIP UPN Veteran Jakarta team and SMP 4 Muhammadiyah Depok, West Java in April 2023.

Based on the formulation of the problem described above, we plan three problem-solving models. First, for problem solving, limited understanding and knowledge related to advances in information technology and learning. Then we will use the approach of lectures and seminars and on-site socialization. Second, to improve the ability and skills of direct practice provision for the development of guru-teacher potential. This is related to the abdimas team in building the potential of teachers to be able to adapt to technology and use technology efficiently and wisely. Third, form an FGD (group discussion forum) to provide problem solving related to obstacles faced by participants. The targets in this community service are: All Leaders and Teachers at SMP 4 Muhammadiyah Depok West Java Based on the description of the problem above, the solution that Offered by proposers through this abdimas program include:

1. Seminars, discussions, and questions and answers with the theme of implications and contributions of Chat GPT to Learning Methods
2. Instilling and understanding awareness of the role of youth in providing good information to family, friends, etc. After socialization.
3. Youth character building development in Karang Taruna will be carried out by the abdimas team.

3. Results and Discussion

3.1. PKM Activities at SMP 4 Muhammadiyah Depok

The performance of LPPM Universitas Pembangunan Nasional "Veteran" in recent years has been progressive in providing information to all lecturers at faculties within UPN "Veteran" University Jakarta about the proposed service grant community both through sending letters and through online media networking sites. Funding comes from DIKTI and internal university costs. Proposals for community service programs funded by internal universities are selected by internal reviewers who have expertise and experience in implementing community service. The rapid change after UPN Veteran Jakarta became a university with BLU status, the role of lecturers in providing knowledge and training will be very important. Moreover, the issue that has arisen a lot lately is about sexual harassment. As a campus with a national defense identity, it is necessary to provide knowledge socialization to the community so that this problem can be prevented or resolved. Considering this problem disturbs the physical, mental and psychological victims of the victim. Thus it cannot be allowed to develop among the youth. Moreover, Indonesia is known as a civilized and religious nation and respects manners. And the issue of harassment is a matter of morality that is contrary to the character of the Indonesian nation.

The implementation of the community service program, socialization of the implications and contributions of Chat GPT to Learning Methods in the digital era carried out by a team of lecturers from the fields of social and political sciences is one form of community service duties, especially the community in Karang Taruna. For more details about the structure of the proposer and their duties and responsibilities can be seen in the table 1. The table shows that the abdimas team consisting of several lecturers is a team that has competence and expertise, and has experience in coaching and guiding the community especially for students and youth. The abdimas team leader has participated in various character building and building programs at the University level. While the members in the abdimas team are also trainers and observers of character building programs in various aspects.

Table 1. Duties and Obligations.

	Name	Position	Duties and Obligations
1	Laode Muhamad Fathun, S.IP., M.H.I.	Head	Organizing abdimas activities and sexual harassment and the role of youth in combating narcotics trafficking, accommodating information, alternative solutions, monitoring, and activity reports and communication with other parties
2	Chiara Vincha	Student I	Design of methods of activities in accordance with the goals and objectives of abdimas
3	Aisha Saharani	Student II	Establishment of training programs, program identification, and evaluation of abdimas
4	Algis Zalita Pitra	Student III	Help create and explain teachers' views on Chat GPT
5	SMP 4 Muhammadiyah Depok	PKM Partners	Location of PKM Activities

3.2 Background of PKM Activities at SMP 4 Muhammadiyah Depok

SMP 4 Muhammadiyah Depok is one of the private junior high schools located on Jl. Al Hukama Mosque RT 03/04 No. 21, Rangapan Jaya Baru, Kec. Pancoran Mas, Depok City, West Java, with zip code 16434. The school is A-accredited with one library, twelve classrooms, and eight student sanitation facilities. This school is a school that is able to provide comprehensive and progressive teaching methods shown in Figure 1. The figure shows that the Service Team from UPN Veteran Jakarta consisting of 4 members carried out service at the school as a form of social responsibility as a lecturer and social responsibility as a student. This means that the team created is a joint team between lecturers and students so that they can synergize and collaborate with each other. Therefore, this collaboration is expected to produce useful knowledge for teachers at SMP 4 Muhammadiyah Depok.

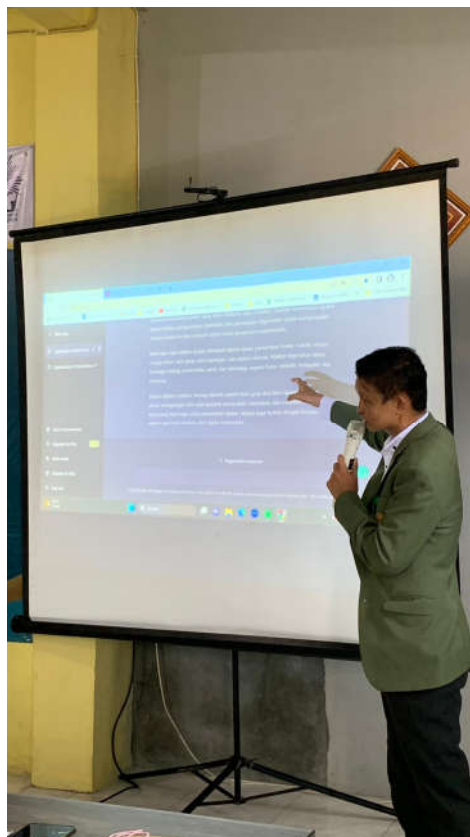


Fig. 1. Presentation by Laode Muhammad Fathun

The first time this PKM was implemented and coordinated was in February 2023. PKM activities began with an initial discussion conducted by one of the teachers at SMP 4 Muhammadiyah Depok, namely Ibu Lilis. It was during the discussion in February that Ibu Lilis interceded with our team to carry out PKM activities at SMP 4 Muhammadiyah Depok. As a follow-up and formality of the meeting, Ibu Lilis continued the results of our discussion to the principal of SMP 4 Muhammadiyah Depok. During the discussion with Ibu Lilis, we explained that there has been a major change in learning technology. These changes are not only experienced by lecturers, teachers, students and students but in all areas of life. Mrs. Lilis welcomed the results of the discussion and appreciated the team if they wanted to carry out PKM activities at SMP 4 Muhammadiyah Depok. Mrs. Lilis said,

"Boy, that's really good, sir, we as teachers really need such knowledge. We also haven't mastered too much learning technology so this PKM will be very useful for us to develop learning methods. However, as a formality, you should first visit our school and meet a number of teachers so that the activity is scheduled. And while I report your activities to the principal."

We positively welcome the response from Ibu Lilis who thinks our activities will be very useful for teachers at the school. Finally, as a formality, we take care of the Letter of Assignment, especially the chairman of PKM as a formality for PKM activities. The management and preparation of this Letter of Assignment is also quite long because it must be reviewed in advance whether the activities carried out are very useful or not. And finally a letter of assignment came down from the Dean who made our activities legal and formal to be carried out.

After the letter of assignment came, finally the PKM chairman representing the other members visited SMP 4 Muhammadiyah Depok to stay in touch with a number of teachers. At that time, it turned out that the head of PKM met with the Head of Curriculum of SMP 4 Muhammadiyah Depok, Mrs. Linda. Mrs. Linda served as curriculum leader at SMP 4 Muhammadiyah Depok. In addition, Mrs. Linda also acts as a teacher of Mathematics-Mathematics Subjects. The Head of PKM explained the same thing to Mrs. Linda that there has been a significant change in the current learning method after the inclusion of

Chat GPT as a learning medium. GPT chat can potentially be something negative can also be something positive depending on how you use it. Mother Linda said,

"Wow, yes, sir, children now prefer to do homework using technology such as cellphones. They just do a photo of the picture then the answer will appear by itself. We felt overwhelmed to overcome that. So that makes our students more lazy and psychological closeness more distant"

The lead researcher conveyed the same thing, where in higher education the same thing happened. Most of the plagiarized student papers are taken on the internet and without the permission of the owner. Therefore, the use of this technology must be appropriate so as not to be a disaster for students. Because if only elementary and middle schools have done cheating things, it will carry over to adulthood such activities. And finally there was an agreement between us to carry out PKM in March and simultaneously with the teacher meeting. So that teachers can see firsthand the practical trials of our PKM activities.

3.3 Implementation of PKM Activities at SMP 4 Muhammadiyah Depok

PKM activities took place in the teacher meeting room of SMP 4 Muhammadiyah Depok after the teacher meeting. The first activity began with a presentation session and material presentation conducted by Laode Muhammad Fathun. Fathun presented related material about the Implications of GPT Chat for learning methods in the digital era. Fathun delivered the material orally for one hour accompanied by Power Point as material for teachers and principals. After Fathun delivered the material, several questions arose from a number of teachers, including Mrs. Lilis who asked about how to anticipate student assignments so that they would work seriously. Fathun then replied that the thing that can be done is to control student activities, including if possible, assignments are done in class, not to take them home. Because if you go home then it has the potential to be done easily by other than the student. Even potentially using technology so that they don't have a hard learning process. The purpose we provide is to train them to work, ethics and morality. Fathun shows a number of tricks that allow students to do and must be learned by the teacher. Incidentally, Ibu Lilis is an English teacher so it is easy for technology to do the questions given.



Fig. 2. Praktik making Power Point using Tome

Then a follow-up question was done by Mrs. Linda. Mrs. Linda asked about the potential of Chat GPT as a tool for students to do what kind of problems. Fathun replied that if the math is formula-based, it seems that Chat GPT tends to be difficult to read. But still, Chat GPT always makes changes and innovations in order to help and facilitate the work of students and students. Fathun tried to show one of the math problems that turned out to be Chat GPT could not detect such as social sciences, humanities and other exact sciences. After a question and answer session with the teachers, it's time for our team to provide some tips on making Power Points easily with Chat GPT, and another AI, namely Tome. This is because Chat GPT still has limitations in terms of making Power Point, where the AI is only able to provide material from presentations. In the practice of creating Power Point, our team switched to using Tome which is able to create Power Point directly. On this occasion, our team showed how to make a presentation, how to add images manually, and how to change the appearance of an existing presentation created by Tome. From the presentation, it turned out that the enthusiasm of the teachers was very positive that making Power Point with a good look and easy to use Tome.

Based on our team's PKM activities, in essence the results of Chat GPT that there are 3 things that Chat GPT cannot do, namely a) relationships between variables b) psychological and emotional closeness c) certainty and reference validation. Therefore, the plague of using GPT Chat must be wise and responsible.

4. Conclusion

The UPN Veteran Jakarta PKM team has carried out PKM activities as an academic responsibility and social responsibility. By raising the topic of adapting to changes in learning methods in the digital era due to the emergence of Chat GPT, this activity was able to provide understanding and knowledge for teachers at SMP 4 Muhammadiyah Depok West Java. From these activities, there are many obstacles faced by teachers, most of whom were born far from the millennial generation. The implications of technology updates are minimal.

With the lack of technological capabilities, we are here to provide a little experience in using learning technology so that teachers can be creative in using technology to attract interest in learning. Our practice is by providing knowledge materials accompanied by direct practice to teachers so that they can know firsthand the use of modern technology in learning. The result is that teachers feel helped and feel happy about this activity and hope to always be part of social change. GPT chat as part of modernizing learning has opportunities and challenges depending on how we use it. Therefore, the presence of teachers is very important to direct students to become intelligent, moral and competitive students.

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Author Contribution

Author one designs and analyzes articles based on PKM activities. The second author wrote the practice-based activities and the third author contributed to writing the concept and the fourth author contributed to writing the background. Funding.

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Conflict of Interest

The authors declare no conflict of interest.

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