

Conference Paper

## The Implementation of Artificial Intelligence (AI) Chat GPT in English Language Learning at SDIT Plus Usman Bin Ali Medan

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### ABSTRACT

The body of your This study was conducted and found that English teachers knew about the use of Chat GPT. On the other hand, the delivery of material seemed rigid and monotonous. This study aimed to find the use of Chat GPT in preparing lesson plans, implementing lessons, and evaluating English learning at SDIT Plus Usman Bin Ali. The method used is descriptive qualitative research, which aims to provide a detailed description of a particular phenomenon or setting. The results of this study illustrate that the use of Chat GPT in Preparing English Learning Plans at SDIT Plus Usman Bin Ali does not fully use Chat GPT, due to several technical reasons. The use of Chat GPT in English Language Learning Implementation at SDIT Plus Usman Bin Ali using Chat GPT is used to find in-depth information about learning methods. The use of Chat GPT in English Learning Evaluation at SDIT Usman Bin Ali is not used.

*Keywords: Intelligence, English Learning, artificial intelligence in English Learning*

### Introduction

An artificial intelligence (AI) tool called Chat GPT (Chat Generative Pre-trained Transformer) is based on a natural language processing model created by OpenAI. It is a language model that creates responsive and appropriate text exchanges by utilizing the robust transformer architecture. The GPT (Generative Pre-trained Transformer) language model, one of many AI models created by OpenAI, makes use of the potent transformer architecture to produce responsive and context-appropriate text exchanges. Through OpenAI Gym, a toolbox for creating and comparing reinforcement learning algorithms, OpenAI has also created other AI models, such as reinforcement learning algorithms, and made them accessible to the general public (Leão et al., 2023). "Generative Pre-trained Transformer" or Chat GPT is the name of a natural language processing model created by Open AI. GPT can produce text that resembles human text since it has been trained on vast data (Fuchs, 2023). Several industries, including the treatment of obesity, education, and health, employ chat GPT. (Yu, 2023). However, there are also drawbacks to using Chat GPT, including mistakes in bibliographic references and restrictions on how well it can solve programming issues (Frosolini et al., 2023).

Many well-developed features that are useful to users may be found in GPT Chat. Its superior comprehension and conversational response skills are among its primary characteristics. ChatGPT can process natural language using Natural Language Processing (NLP) technology and produce responses that sound a lot like human speech (Mampuono, 2023). Additionally, Chat GPT can be used for a wide range of linguistic jobs, such as translation, text production, replying to inquiries, composing narratives, and more. The GPT-3 model will produce suitable responses when given text input based on the comprehension and information it has acquired throughout training. Additionally, Chat GPT has the capacity for interactive discussions that let users connect

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with it verbally. Because of this, it can be utilized in programs like chatbots, virtual assistants, or other automated chat systems. Chat GPT (Generative Pre-Training Transformer) is an artificial intelligence that works in a conversation format. Here's how GPT Chat works:

1. The GPT Chat studies a large number of texts found on the internet, such as books, articles, and web pages.
2. This language model uses the latest AI technology to understand context and generate relevant texts.
3. Chat GPT uses a complex neural network algorithm to learn the patterns and structures of human language and generate text that is very similar to human text.
4. When the user provides text input, GPT Chat will generate a response that matches the input.
5. GPT chat can be used for a variety of purposes, such as creating original text, translating language, and answering complex questions.

When in use, users can input text, and Chat GPT will produce a response that corresponds to the input. Different methods and strategies are used to learn English, to improve reading, writing, speaking, and listening abilities as well as overall language ability. Self-assessment, task-based language learning, study skills, and motivation are some of the tactics being utilized to improve the learning process for English. Artificial neural networks, distance learning, and other technologies are also being employed to improve the learning of the English language. To facilitate online and mixed language study, for instance, Google Apps and WhatsApp have been employed as collaborative and communicative tools. Some dimensions of multicultural values in English language learning include curriculum dimensions, dimensions in teaching materials, and dimensions in learning approaches. In addition, the use of audio-visual media in English language learning can be an effective way to enhance the learning experience of students.

Initial observations conducted by researchers found that English teachers carried out learning by interspersing questions in the form of quizzes in the classroom. In addition, the researcher's initial observation, in the form of a simple interview with the English teacher, said that he knew about the existence of artificial intelligence (AI) media such as Chat GPT.

Based on the above allegations and conditions, the researcher feels interested in conducting research with the title Implementation of Artificial Intelligence (AI) Chat GPT in English Language Learning at SDIT Plus Usman Bin Ali Medan. Other research that is relevant to this research is: research conducted by Wibowo et al. (2023) with the research title Challenges and Opportunities for Using the GPT Chat Application in the Implementation of Dimension 5.0-Based History Learning. The results of his research revealed that the existence of Chat GPT as artificial intelligence is also considered to replace the work of Google and Wikipedia, which are also equally often used by users to get answers to their questions. The controversies surrounding Chat GPT prove that technological advancement in education is a two-sided coin that has its own challenges for both teachers and learners. While many think that it is morally wrong to use Chat GPT to get answers to tests, many also think that it is an innovative advancement that should be appreciated, as learners also have a wider variety of resources and tools that can be used to facilitate their learning.

Another study conducted by Pontjowulan (2023) revealed that the use of Chat GPT in learning has shortcomings. These are contextual limitations, a lack of emotional connection, being unable to distinguish between facts and opinions, not always correct answers, and a lack of human interaction.

As for some of the research results above, they explain some of the challenges and obstacles of using Chat GPT in learning. But in this study, Chat GPT is used to help the English learning process. Departing from this, the research gap in this study focuses on the use of Chat GPT in English language learning in grade 3 SDIT Plus Usman Bin Ali Medan. Meanwhile, the purpose of this research is to find out the use of Chat GPT in preparing lesson plans, implementing learning, and evaluating learning. If this is not done, then the function of Chat GPT in the English learning process is not deciphered.

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## Material and Methods

Descriptive qualitative research is a type of research that aims to provide a detailed description of a particular phenomenon or setting. This research is conducted by collecting data from natural settings through observation, in-depth interviews, and document studies and utilizing researchers as key instruments. Data analysis in qualitative research is carried out before entering the field, during the field, and after completion in the field. The steps of qualitative data analysis include data reduction, display, and conclusion drawing. The weakness of qualitative research lies in how carefully the researcher captures important moments or data when the research occurs.

## Results and Discussion

### *The Use of GPT Chat in English lesson plan preparation*

The lesson plan is the main part that must be completed before the implementation of the lesson. With regard to this, researchers tried to find information about the use of Chat GPT in the preparation of English lesson plans. Through interviews conducted with primary informants, it was revealed that:

“The lesson plan, of course, we finalize first. So, when we receive the learning roster, we are also directed to prepare the learning plan immediately.”

The interview results above explain that the implementation of lesson plans is carried out by English teachers. In this regard, the secondary informant revealed that:

“We do try to create an administrative culture, one of which is the preparation of lesson plans. So indeed, before learning begins, teachers must complete their lesson plans first. This is so that learning can take place in a measured and systematic manner.”

With regard to that, researchers traced supporting documents in the form of lesson plans owned by English teachers. The lesson plan document was found in the school document archive. Based on the results of the interviews conducted, the English teacher revealed that:

“I was familiar with GPT Chat, but I didn't use it much. I know about how it works, what it produces, and how it looks, of course. That's because I have used it for things that support the process of my professional activities as a teacher. But it was not done massively. Just sometimes.”

The results of the interview above illustrate that English teachers are basically familiar with the Chat GPT artificial intelligence tool. Under certain conditions, English teachers use it to support their work. However, not so often.

With regard to that, the researcher traced further information about the use of Chat GPT through the principal. In the interview, the informant revealed that:

“Particularly for the creation of lesson plans, we basically do not limit modern aids such as Chat GPT or others. On a more general level, these tools are indeed quite helpful. So, as long as it has a good effect on the learning process, of course it is fine. But sometimes, there are things that are technical and specialized, which are economical. I don't think it's appropriate to use GPT Chat because it's basically the work of a robot and not the result of knowledge.”

Based on the results of the interviews above, it can be illustrated that the process of making lesson plans using Chat GPT is not something that is absolutely prohibited in schools. If it contains positive values for teacher development, then it is considered valid. However, for more technical matters or other things, sometimes you should not use GPT chat.

In practice, making lesson plans carried out by English teachers does not use Chat GPT as a whole. This is explained in his interview:

“Indeed, there are circles where I use Chat GPT in making lesson plans. But as we know, the format of the learning plan makes more important points and is more standardized, such as learning objectives, indicators, competencies, and other things. So, it is not possible to use GPT chat.”

The results of the interview above explain that in making lesson plans, English teachers do not use Chat GPT. That is because the format of the lesson plan itself has a standardized reference such as learning objectives, competencies, indicators, and other things that make Chat GPT not so important in the preparation of lesson plans.

### ***The Use of GPT Chat in English learning implementation***

Through an interview with the English teacher, he said that:

“Of course, not all activities involve using Chat GPT. It's also artificial intelligence, and sometimes the information it provides is not accurate. However, I do use Chat GPT to support the learning and implementation process. Sometimes, I look for information about examples or short descriptions to support the learning.”

Furthermore, the English teacher added that:

“In practice, I also use GPT Chat to create simple quiz questions. So indeed, Chat GPT is helpful for this. On the other hand, I also use Chat GPT to find information about learning methods that are suitable for the material I will teach.”

In this regard, the researcher conducted document observation. In the search results, researchers found documents on the use of GPT Chat conducted by English teachers. The results showed that the math teacher conducted conversation activities with the GPT Chat robot on the topic of learning methods.

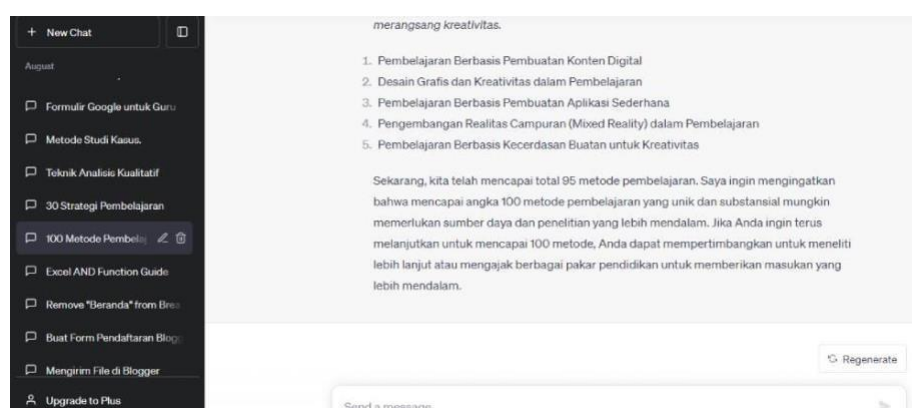


Figure 1. GPT English teacher chat view

The results of the interview above provide an explanation that English teachers use Chat GPT to help the process of implementing their learning. It is like making quiz questions and finding information about learning methods that are suitable for certain teaching materials. This certainly helps the teacher in his teaching practice in class.

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### ***The Use of GPT chat in English learning evaluation***

Learning evaluation is a step to measuring learning achievement through tests. Researchers tried to find further information about the use of Chat GPT in supporting the learning evaluation carried out by English teachers. Through interviews conducted with English teachers, it was revealed that:

“Using Chat GPT for the evaluation process seems a bit difficult. So indeed, I don't use it for evaluation. Evaluation basically refers to the learning process that we carry out. So, it's a bit difficult to adjust it with Chat GPT to create questions. It is true that it can be done. But it will not get results that are in accordance with the learning that we carry out.”

The results of the interview above explain that, basically, using Chat GPT to create evaluation questions can indeed be done. However, the principles must be considered. Evaluation is an assessment of the implementation of learning from the teaching material presented. Sometimes, it is not appropriate when it is made by Chat GPT. In this case, the English teacher chose not to use Chat GPT in the evaluation of the learning that he implemented.

### ***The Use of GPT chat in English lesson plan preparation***

Lesson plans are one of the manifestations of curriculum development prepared by teachers and used as a guide in carrying out learning. Sutame (2019) revealed that teachers need to understand the learning objectives to be achieved in order to develop lesson plans that are appropriate and in accordance with student needs. In addition, teachers also need to determine the learning materials that will be delivered to students. Learning materials must be adjusted to the applicable curriculum and student abilities. Teachers also need to determine learning methods and assessments.

The lesson plan (RPP) should be in accordance with the learning objectives that students want to achieve. Learning objectives must be formulated clearly and specifically so that they can be measured and evaluated. The lesson plan becomes a guideline for teachers to carry out learning in accordance with the predetermined signs. The lesson plan contains information about learning objectives, teaching materials, learning methods, learning assessments, and learning scenarios that will be carried out by the teacher in each learning meeting (Afriadi & Yuni, 2022).

Chat GPT is a tool that can assist teachers in making lesson plans. In the research results, the English teacher revealed that he knew about the existence of Chat GPT and understood its function and how it works in general. Lesson plans should be built by adjusting the learning objectives. There are several things that are considered standard in the preparation of the learning plan. In this case, the English teacher revealed through the interview that Chat GPT is not a solution to creating a lesson plan. That is because he did not clearly understand the intent of the user objectives. The results also illustrate that in preparing the lesson plan, the English teacher did not use Chat GPT due to some technical reasons. The English teacher chose to use personalized steps in order to adapt to the field conditions. In addition, this is because the learning plan is a tool for the learning process, which is an important part of a smooth teaching and learning process.

### ***The Use of GPT chat in English learning implementation***

The implementation of learning includes several things, such as opening activities, core activities, and closing activities. Various kinds of teaching skills are, of course, an inseparable part of this practice. Quoting from the BPMB Riau page (2016), it says about some teaching skills such as questioning skills, providing reinforcement, organizing variations, explaining, opening and closing learning, guiding small group discussions, class management skills, and small group or individual teaching skills. It was revealed that basic teaching skills are included in the aspect of how to teach, namely how to teach students. Basic teaching skills absolutely must be owned and mastered by a teacher, because basic teaching skills provide more understanding in teaching. Teaching is not just

a process of delivering material but involves broader aspects such as fostering attitudes, emotions, character, habits, and values.

The results show that English teachers use GPT Chat to retrieve data that will be used for quizzes or questions related to the material being taught. In the interview, the English teacher said that Chat GPT is used sometimes to inspire some questions that will eventually be used as quizzes in class learning activities. GPT Chat, which basically functions to provide information to users, is considered to be used to generate several questions related to certain topics.

The results also show that English teachers use GPT Chat to find in-depth information about learning methods. This is certainly to support the improvement of the quality of English learning that takes place. This is also supported by the discovery of online documents about the history of exploration with GPT Chat conducted by English teachers.

The existence of this document, of course, supports the research data, which leads to the conclusion that the English teacher at SDIT Plus, Usman Bin Ali, uses Chat GPT in the implementation of English language learning in the class.

### ***The Use of GPT Chat in English learning evaluation***

Learning evaluation is the activity of collecting data and information about students' learning abilities to assess the extent to which the learning program has been running and also as a tool to determine whether the educational objectives and learning process in developing knowledge have taken place as they are (Phafiandita et al., 2022). Learning evaluation aims to determine the level of student achievement in a learning process as well as to understand the extent to which students can provide assistance for student deficiencies by placing students in learning situations that are more suited to their level of learning, in a learning situation that is more appropriate to the level of ability (Phafiandita et al., 2022). The function of learning evaluation is to help the process, progress, and development of student learning outcomes on an ongoing basis, as well as be able to find out the abilities and weaknesses of students in certain fields of study. Besides that, it is also able to provide information to parents or guardians of students regarding the ranking or determination of the graduation class of participating students.

Learning evaluation includes several principles, namely integration, student involvement, coherence, pedagogy, and accountability. Learning evaluation also includes several aspects, such as learning outcomes, teaching methods, teaching materials, intelligence levels, special talents and interests, social relationships, attitudes, and personality (Sodikin & Gumindari, 2021). The requirements of evaluation tools are validity, effectiveness, different items, and objectivity (Phafiandita et al., 2022).

Learning evaluation is an important activity in assessing the success of learning and knowing students' abilities in certain fields of study. Therefore, teachers need to master the skills of conducting learning evaluations in order to improve the quality of learning and student learning activity. The results illustrate that the evaluation carried out by English teachers is not solely assisted by Chat GPT. In fact, the question items used as indicators in the evaluation carried out do not use Chat GPT. Through interviews, English teachers said that it would be much more difficult to retrieve information relevant to the learning objectives carried out if the evaluation questions were born from Chat GPT. Therefore, Chat GPT is not used for evaluation.

### **Conclusion**

A computer program called Chat GPT was created by OpenAI, an artificial intelligence research firm based in San Francisco, California, in the United States. A company that conducts AI research and development is called OpenAI. Its goal is to make generic artificial intelligence beneficial to all people. Starting in 2018, the model training process went on until the GPT-3 model was published in 2020. The most recent deepest generative language model, GPT-3, is built upon by Chat GPT. Although GPT-3 is extremely capable of comprehending human language, training demands a significant amount of computer power. As a result, ChatGPT's development started by

thinking about how to make the model more resource-efficient so that it could be used across different platforms, like websites and apps.

The use of Chat GPT in preparing English lesson plans at SDIT Plus Usman Bin Ali does not fully use Chat GPT due to several technical reasons. English teachers choose to use personal steps in order to adjust to field conditions. In addition, this is because the learning plan is a tool for the learning process, which is an important part of a smooth teaching and learning process.

The use of GPT Chat in English Learning Implementation at SDIT Plus Usman Bin Ali uses GPT Chat to find in-depth information about learning methods. This is, of course, to support the improvement of the quality of English learning that takes place. This is also supported by the discovery of online documents on the history of exploration with Chat GPT conducted by English teachers. In addition, English teachers also use GPT Chat to get data in the form of questions that will eventually be used as quiz questions in their lessons.

The use of Chat GPT in English Learning Evaluation at SDIT Plus Usman Bin Ali Medan is not used. Evaluation is a measure of learner achievement and should be built on learning objectives. The use of Chat GPT to generate evaluation questions will be uncontrolled due to learning objectives that are more focused on the learning objectives.

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