
ENGAGEMENT OF AI BASED ChatBot, ChatGPT IN STUDENT LEARNING

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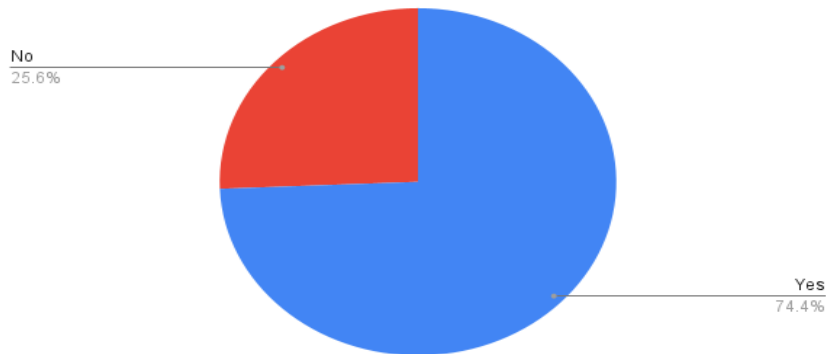
INTRODUCTION

Nowadays, the engagement of artificial intelligence (AI) into education sector has significantly changed the learning patterns. Among these advancements, the application of AI-based chatbot, ChatGPT stands out as a promising tool for students gaining informative and human-like interactions to enrich their learning experience. This paper tells us about the different engagement of students with the AI-based chatbot, ChatGPT, which was introduced on November 30, 2022. The article mainly focuses on how students utilize this technology, ranging from growing its capabilities for knowledge acquisition to potentially misuse in their academics. Chatbot's potential is a concern related to academic integrity, such as cheating and assignment copying, which is given from educational institutions. This research tells us about the critical importance of engaging students with necessary education which is shaped by AI chatbot like ChatGPT.

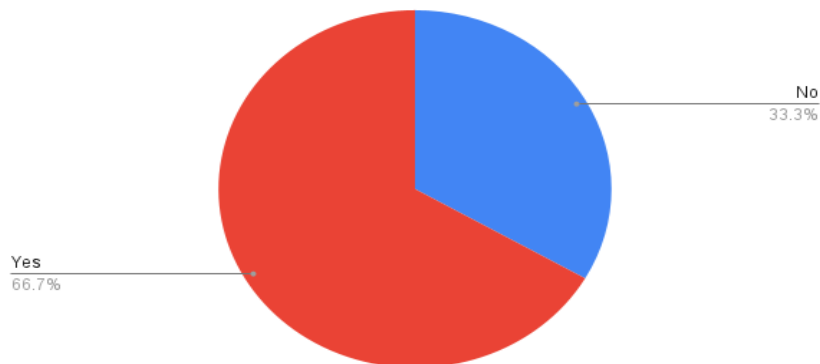
RESEARCH METHODOLOGY

The study is based on primary data where the data is being taken from students on google form and later being analyzed on excel sheet. The total number of data collected is 39. The questions and their pie charts are being given as follows:

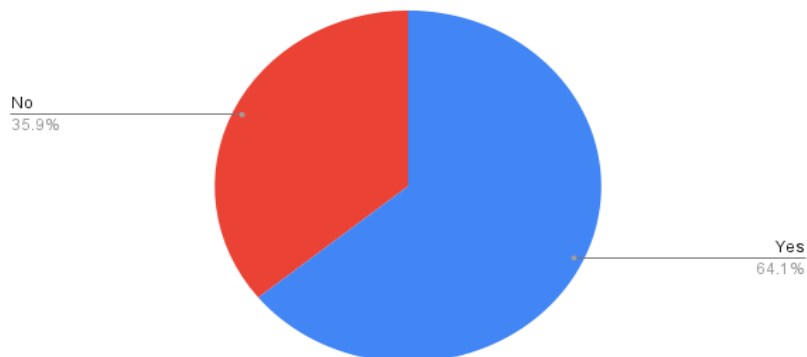
Do you plan to continue using ChatGPT for educational purposes in the future?



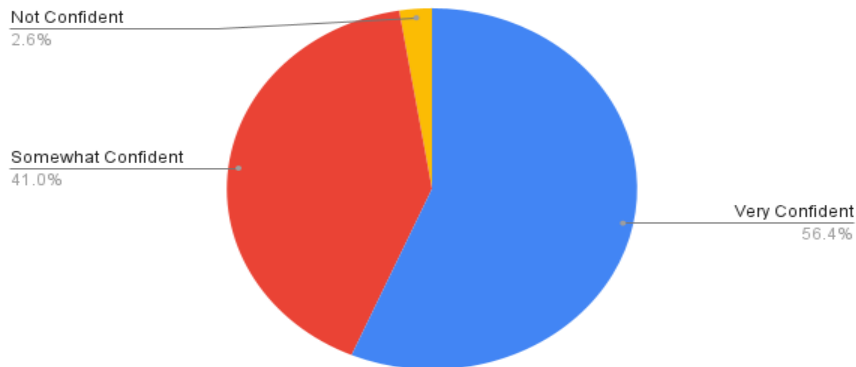
Has your educator expressed concerns about potential misuse of AI tools like ChatGPT?



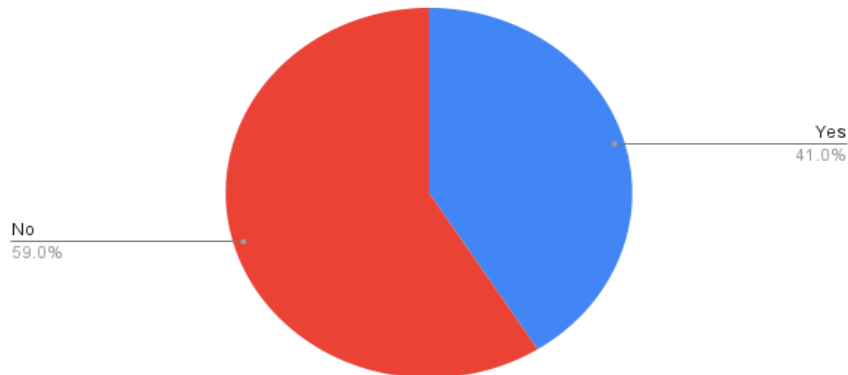
Have you noticed any improvement in your academic performance due to using ChatGPT for learning purposes?



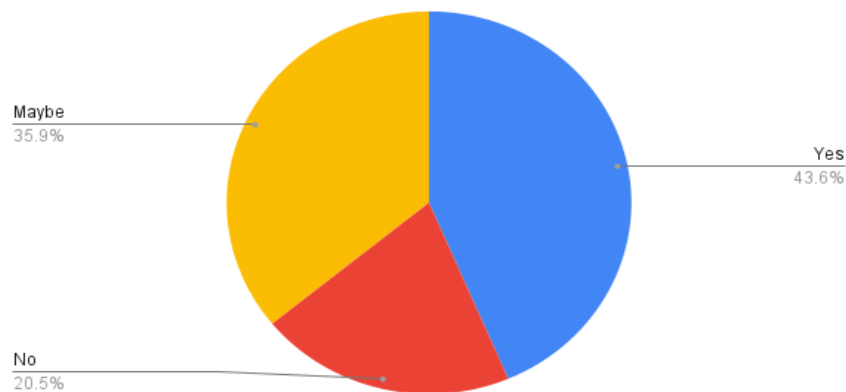
How confident are you in your ability to differentiate between your own work and content generated by ChatGPT?



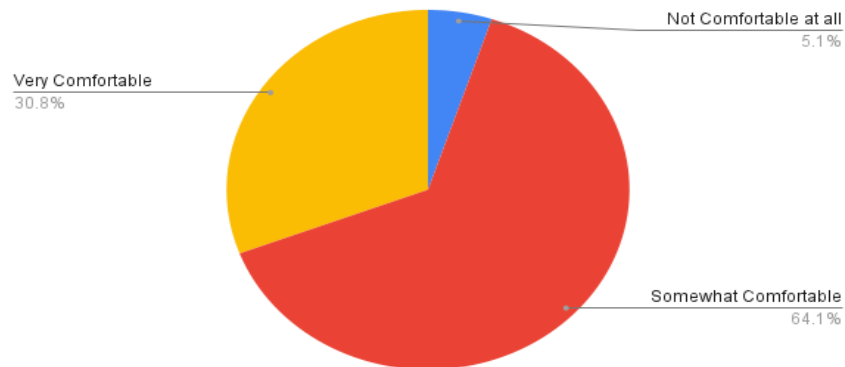
Have you been explicitly instructed by your educators to use ChatGPT for learning purposes?



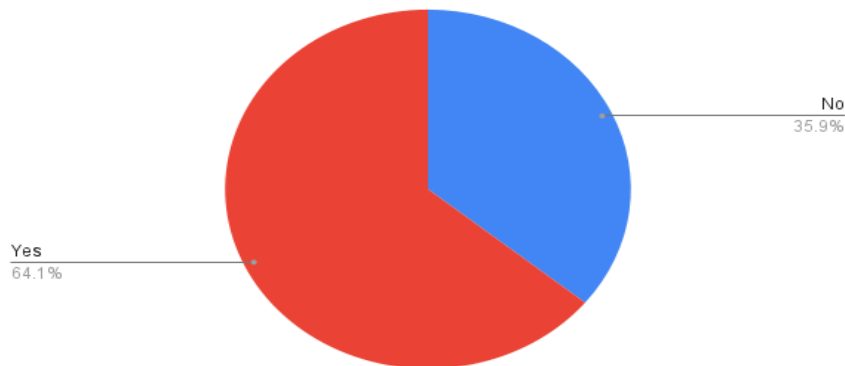
Do you believe using ChatGpt for educational purposes aligns with ethical learning practices?



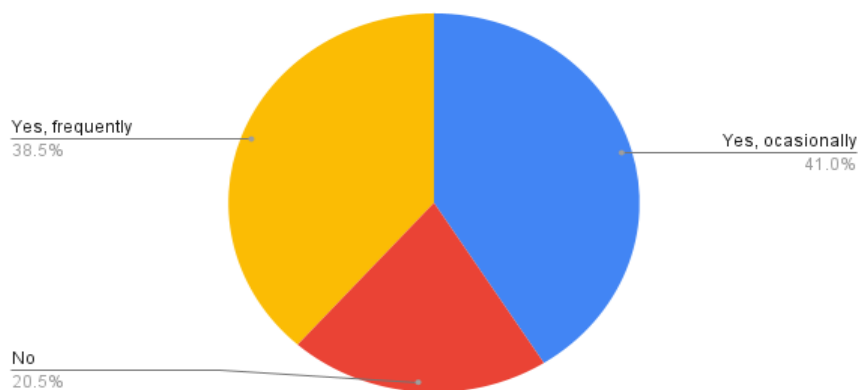
How comfortable are you discussing ChatGPT usage with your educators?



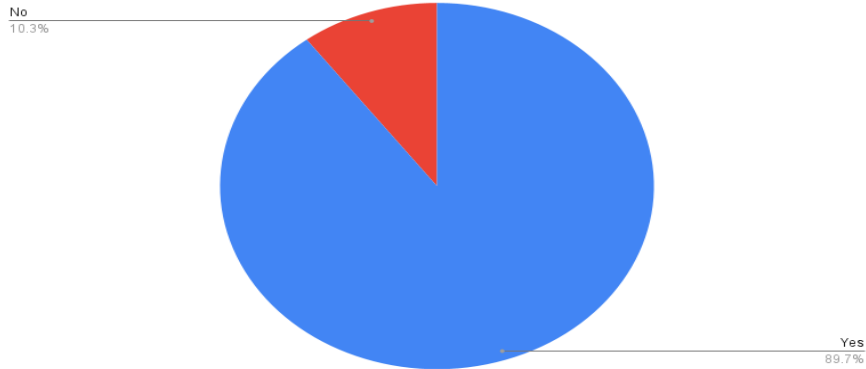
Have you ever shared ChatGPT-generated content with your peers?



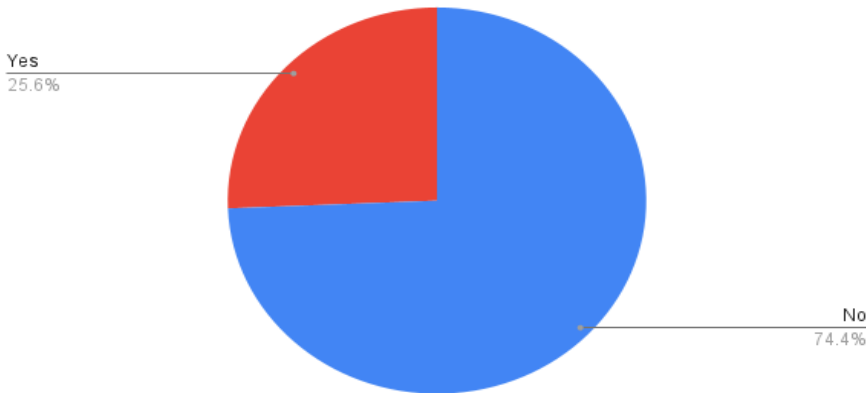
Count of Do you discuss your usage of ChatGpt with your peers?



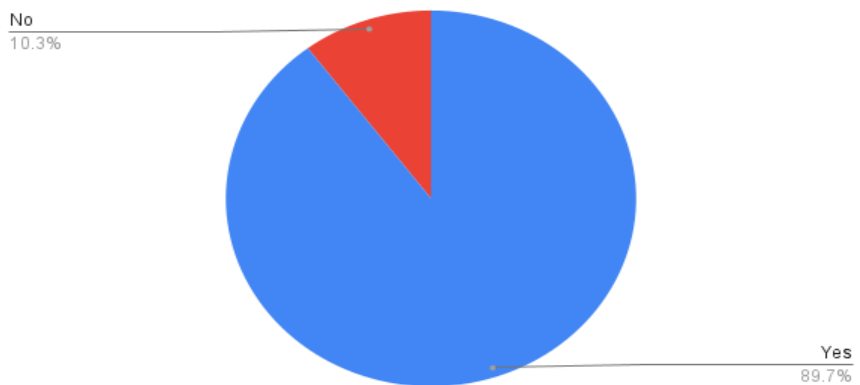
Count of When using ChatGPT, do you mostly seek help with understanding concepts or getting explanations?



Count of Have you used ChatGPT to directly copy answers or content for assignments or exams ?



Count of Are you familiar with ChatGPT or similar AI language models?



REVIEW OF THE LITERATURE

The research papers represent a comprehensive review of how ChatGPT has been utilized in educational sector. There are lot of benefits like personalized learning and assistance in various diversified domains and subjects. As well there are few of negative side of using ChatGPT in student's life. The study underscores the need for thoughtful integration into education, emphasizing its potential to enhance learning while highlighting potential challenges that require careful consideration.

RESEARCH OBJECTIVES

1. To identify the key role AI tools are playing in student learning.
2. Identify and analyze use and misuse of AI tools in student learning.
3. Analyzing factors influencing use of AI tools in educational sector.

KEY EVENTS IN EDUCATIONAL SPACE

Launch of ChatGPT in Education: (November 30, 2022): The introduction of AI based chatbot, ChatGPT is capable of providing informative and human-like responses which provides a significance in the integration of Artificial Intelligence into education.

Utilization as a Knowledge Assistant: Students are found to use ChatGPT as a tool to gain knowledge which is related to their academics. This tool shows the potential of AI chatbot, ChatGPT in supporting students' learning.

Cheating and Copying Concerns: It is being seen that students cheat and copy assignments with the help of AI based chatbot, ChatGPT. This event raises alarms about academic integrity and tells educational institutions to take immediate actions to address these ethical challenges.

ADVANTAGES OF CHATGPT IN EDUCATION SECTOR

Personalized Learning Assistance: AI based chatbot, ChatGPT helps in personalized learning and gives a structured explanation and clarification regarding the subjects. This helps the students to clear the gaps in their understanding and knowledge.

Reduced Learning Barriers: Many students are not quite comfortable in asking question or doubts in class. For them ChatGPT helps to clear and clarify doubts in a comfortable and a non-judgmental environment.

Opportunity for Self-Directed Learning: ChatGPT helps students to gain knowledge in a diversified form and encourages them to explore new topics.

DISADVANTAGES OF CHATGPT IN EDUCATION SECTOR

Reduced Critical Thinking: As ChatGPT gives a quick answer to most of the questions asked, so students find this as an easy way to find answers for any problems which reduces in their critical thinking and problem-solving approach.

Privacy and Data Security: The use of AI chatbot, ChatGPT involves sharing personal information, which increases privacy and security concerns if not handled properly by educational institutions.

Potential for Misuse: Many of the times students get engaged with unnecessary things that is not relevant to their educational objectives and starts finding details regarding them which makes students get diverted from their goal.

FUTURE OF EDUCATION SECTOR

Customizable Learning Pathways: AI chatbot, ChatGPT can analyze individual learning patterns and suggest the individual about their strengths and interests.

Research and Development: Continuous research of AI technologies can better the chatbots and help students to get a more advanced learning process.

VIEWS OF INDUSTRY EXPERTS

Industry experts hold varied opinions on the role of AI in educational sector. Some believe that AI tools will lead to greater efficiency of students and improve the knowledge of students in a diversified manner. While some contradict on this point saying that AI tools are reducing the student's potential and giving a negative impact on student's life by reducing their capability of having a cognitive development and problem-solving approach. However, the analysis is going on a daily real-time daily basis to know whether the impact of AI tools on student learning are landing on the positive or on the negative side.

CHATGPT IMPACT ON EDUCATION SECTOR

1. Positive Impacts

Efficient Learning: ChatGPT enables quick access to structured information helping students to gather knowledge and resources.

Diverse Subject Support: ChatGPT helps the student to gather knowledge and information about various diverse subjects with the help of the past data.

Preparation for Digital Future: Getting engaged with AI chatbot like ChatGPT helps the student to become digitally advanced with skills and technologies for the future.

2. Negative Impacts

Diminished Critical Thinking: Students are getting involved with ChatGPT to get answers quickly and easily which is negatively impacting students to develop their critical thinking and problem-solving approach.

Inaccurate Information: ChatGPT's response sometimes give inaccurate information which in certain cases mislead students.

Technological Dependence: Getting too much dependent on AI, students are not getting self-dependent to research on their own.

3. Educational Responses

Balancing Technology and Pedagogy: Educators / Teachers need to make a balance between the usefulness of AI tools such as ChatGPT and maintaining meaningful human interaction in the learning process of the students.

Adapted Assessment Strategies: Educational institutions should develop innovative assignments with the help of AI tools and encourage students to implement critical thinking and problem-solving approach.

Digital Literacy Curriculum: Digital literacy education in curriculum will help students to develop skills to use AI tools.

CONCLUSION

In the evolving landscape of education, the AI-based chatbot like ChatGPT brings a wide range of transformative possibilities of learning new skills and gaining more and more knowledge as well as there is a possibility of cheating and copying assignments which is unethical from educational perspective. ChatGPT can be used both from a positive side and also from a negative side. By the negative implementation the cognitive development, problem-solving approach and taking challenges is becoming limited. By looking on the positive side we can see the gaining of diversified knowledge, skills and structured information is getting high. So, looking from both the aspect there should be a balance between the utilization and misuse of AI based tools like ChatGPT by students in the educational sector.

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