

EXAMINING YOUNGSTER’S PERCEPTIONS OF IMPACT OF CHATGPT FOR STUDENTS LEARNING AND EDUCATION

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ABSTRACT:

In recent years, all the traditional practices have been revolutionized by integration of Artificial Intelligence in various Sectors including educational fields. This abstract throw light on the impact of ChatGPT on student learning and education, finding out the benefits and challenges. As this model, continues to grow further this not only limits individual learning but also helps in collaborative learning experiences such as multi-party conversations and group discussions. The purpose of this study is to have a special focus on Chat GPT created by open Artificial Intelligence in the educational sector. This study helps to contribute a clear idea on how Chat GPT empowers students to take ownership of this education.

KEYWORDS: Chat GPT, Artificial Intelligence, Personalized Learning, Self-directed learning, AI Ethics & Motivation.

INTRODUCTION:

Chat GPT (generative pre-trained transformer) is a language model developed by open AI. It is designed to provide response in the form of text similar to human response for a given conversation. The latest version of GPT series is GPT-3.5. This was initially released on November 20, 2022 and it is written in Python. The enormous development of Chat GPT with their subsequent versions helps in deep learning and ongoing research. Chat GPT is versatile as it helps to find the errors in the computer program and write it accordingly, helps in writing student essays, business pitches, poetry and can even compose music etc. This has paved the way for more interested and dynamic user experience, bridging the gap between human and machines like never before. This interactive learning experience makes the students to take control on their education and explore their syllabus at their own pace.

REVIEW OF LITERATURE:

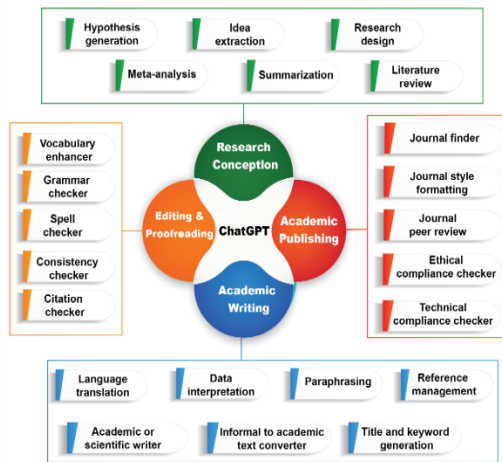
TOPIC	YEAR / AUTHOR	OBJECTIVES	FINDINGS
Education in the age of generative Artificial Intelligence: Exploring the potential advantages of ChatGPT in enhancing teaching and learning.	2023 David Baidoo -Anu, Leticia, Oorusu Ansah	1. Analyzing personalized and interactive learning and teaching process. 2. How Well ChatGPT improves student education and learning process. 3. Highlighting the benefits /Limitations in teaching/ Learning.	Benefits: 1. Personalized Tutoring 2. Automated Easy Grading. 3. Translation 4. Interactive & adaptive learning. Limitations: 1. No Human Interaction. 2. Understanding level is limited. 3. No creativity. 4. No Privacy.
Use ChatGPT to solve programming bugs.	2023 Nigar M. Shafiq Suramevey, Mohammed. Y. Shakor	1. Exploring Chat GPT to solve bugs in programming. 2. Explores limitations of ChatGPT in finding solution in	1. Plays important role by providing bug prediction, bug explanation and assistance in debugging. 2. ChatGPT is a comprehensive tool kit, and should be used in combination with other tools to give efficient and accurate results. 3. Depends upon quality of data system

		programming bugs and importance of utilizing other tools and techniques.	design.
Applications of ChatGPT in Medical, Dental, Pharmacy, and Public Health education.	2022, November Malik Sallam, Nesreen A. Salim, Muna Barakat, Ala. B. Al-Tammemi	1. Advantages and disadvantages of ChatGPT in Medical, Dental, Pharmacy, and Public Health fields. 2. Impact of ChatGPT on Interdisciplinary in Medical, Dental, Pharmacy and Public Health.	1. Personalized learning's can be improved. 2. Realistic case scenarios for medical students. 3. Clinical reasoning can be improved. 4. Help to grab medical concepts easily. Limitations: 1. Lack of privacy. 2. Inaccurate content. 3. More Biased No critical thinking.
Chat GPT Utility in Health Care Education, research and practice: Systematic review on the promising perspectives and valid concerns.	2023, March Sallam. M	1. Evaluate code of ethics and involvement of stakeholders. 2. Highlighting benefits and limitation of ChatGPT in Health Care, research education and practice.	1. Risk concerns towards health care, Practice & Education have been identified. 2. Suggested actions and conclusion have been clearly explained for all sectors
ChatGPT for education & Research: Opportunities, Threats & Strategies.	2023 8 th -May Md. Mostafizer Rahman, Yutaka Watanobe	1. Exploring potential opportunities & Threats. 2. Evaluate the impact of ChatGPT on programme Learning. 3. Conducting survey and taking analysis.	1. Personalised Learning Support. 2. Lesson -Planning. 3. Answering queries from Learners. 4. Assessment & Education. 5. How to reduce errors. Threats/Strategies: 1. Integrity of assignments and online exams . 2. Blind reliance on generative AI tools. 3. Potential Biases. 4. Ethical implications. 5. Difficulty in evaluating answers and text from ChatGPT.
ChatGPT: Are evolutionary tool for teaching and learning mathematics.	May 2023. Yousef Wardat, Mohamad A. Tashtough, Roman Al Ali, Adeeb M. Jarrah	1. The objective of this study is to examine the students in learning Maths with the help of AI. 2. Provide insights about advantages, limitations and areas to improve in mathematical field by integrating ChatGPT.	Based on these two dimensions: 1. Content analysis of Interview. 2. Investigation of user experience. We clearly see that, 1. ChatGPT improves capabilities in Mathematics. 2. Hit & Miss ChatGPT accuracy. 3. Solving Mathematical problems and equations. 4. Solving limit of functions. 5. Geometry can be easily taught by GPT.

<p>What GPT means for Universities: Perceptions of scholars and students.</p>	<p>19th April 2023 Mehmet Firat</p>	<p>1. The study aims to understand the perceptions of scholars and students regarding ChatGPT and its impact on various aspects of education. 2. Another objective is to provide insight and suggest areas for future research, privacy, implications of ethics etc.</p>	<p>By the matic content analysis, the findings are listed below:-</p> <ol style="list-style-type: none"> 1. Personalized Learning. 2. Impact on Assessment and Evaluation. 3. Digital Literacy & Integration of AI. 4. Evolution of learning and education system. 5. Social and Ethical considerations. 6. AI-Extension of human brain. 7. Future of work Employability 8. Shifting the role of educators.
<p>Analyzing the Role of ChatGPT in improving student productivity in higher education.</p>	<p>6th April 2023 Fanzi, F.Tuhuteru, L.Sampe, F.Ansat, A.M.A. &HattaHR.</p>	<p>This study aims to investigate how chatGPT, technology tool can contribute to enhancing student productivity in various aspects of learnings.</p>	<p>Demonstrate and explore the positive impact on Chat GPT on student productivity such as enhancing language skills, increasing effectiveness and time efficiency and providing support and motivation.</p>

RESEARCH METHODOLOGY:

Research methodology refers to the specific processes or techniques employed to identify, choose, process, and analyze information related to a particular topic. This research is designed using a qualitative approach through literature study. Secondary data is collected through journals, books.



RESULTS AND INTERPRETATION:

This study reveals that how Chat GPT plays a vital role in student’s education and reframing their academics. The perks of using Chat GPT are personalised tutoring, automated easy grading, language translation, adaptive learning, interactive learning, 24/7 availability, reducing workload on human, accuracy and consistency, critical

thinking and reasoning, multilingual support, solving complex mathematical form / equations etc., Though it has many advantages, Chat GPT yet have limitations which are to be encountered. Some of them are listed below: -

- No human interaction
- No creativity
- No privacy
- Dependency of Internet connectivity
- More biased
- Inaccurate contents (Sometimes)
- Limited knowledge cut off
- Provides information with over confidence
- Lack of error awareness

CONCLUSION AND FUTURE PROJECTS:

On the basis of the findings of this study, it clearly depicts that ChatGPT has both advantages and drawbacks. Though it has many drawbacks Chat GPT acts as an asset for the student’s education in this digital era. Overcoming the limitations of ChatGPT in student learning requires both strategies and considerations such as:-

- Strive for ethical use and develop policies, guidelines and best practices and effective use of AI technologies.
- Implement Human Supervision.
- Encourage critical thinking and verification.
- Continuously update and Refine Data
- Students should widely use and pay attention to all resources.
- It must be balanced with human interaction.

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