



A STUDY ON CHAT GPT AND ITS IMPACT ON THE HIGHER EDUCATION SYSTEM IN MUMBAI

AADITYA KHARE

Department of Banking and Insurance

NISHKA DIXIT

Department of Accounting and Finance

ABSTRACT

This paper aims to evaluate students' and teachers' perspectives towards shifting to ChatGpt/AI rather than continuing with the traditional mode of teaching and education. In this new tech-driven world where nothing is constant and the dynamics change every second, the pandemic kind of forced-bridged digital learning platforms, with the introduction of ChatGpt can provide you with 300 million different solutions, the question lies in fact that will we let this take over the education curriculum fully or can we co-exist with the traditional mode of education.

Keywords: Artificial intelligence; Artificial Learning; Natural Language Processing; ChatGPT; Text Generation; Chatbots

INTRODUCTION

ChatGPT has become a crucial tool for various applications, including chatbots, language translation, text generation, and more. In this research paper, we will delve deeper into the technical details of ChatGPT and explore its inner workings. We will also examine its potential applications in various industries and assess its effectiveness in real-world scenarios. Additionally, we will discuss the challenges and limitations of language models like ChatGPT and highlight the importance of continued research and development in this field. This research paper aims to comprehensively understand ChatGPT and its impact on natural language processing and AI development.

OBJECTIVES

- To study the growing popularity of Chat GPT among students.
- To understand the impact of AI on the higher education system in Mumbai.
- Coexistence of AI and traditional learning.
- Future scope of Chat GPT for students as well as teacher's faculty.

RESEARCH METHODOLOGY

The primary data is collected by survey method. The total number of respondents is 83

- The survey was done using Google form among South Bombay college students
Age group 17-20
- We also interviewed 4 professors from a South Bombay college

Secondary data: The secondary data is collected from various web sources.

BACKGROUND

ChatGPT is a significant language model developed by OpenAI, which is designed to generate human-like responses to a wide range of prompts. It was trained using a technique called unsupervised learning, where the model was fed with massive amounts of text data from the internet to learn the patterns and structures of language.

ChatGPT is part of the GPT (Generative Pre-trained Transformer) family of language models developed by OpenAI. The first version of GPT, GPT-1, was introduced in 2018, and it was a breakthrough in the field of natural language processing (NLP). OpenAI continued to refine and improve the GPT model, and in 2019, they introduced GPT-2. This version of the model was significantly larger and more powerful than its predecessor, and it was trained on an even larger dataset of text data.

In 2020, OpenAI released GPT-3, which is the most powerful version of the model to date. GPT-3 has been trained on an enormous amount of text data and can generate highly coherent and contextually appropriate responses to a wide range of

FINDINGS

Creativity

Chat GPT is very good for students if used in the right way as it can provide quick and easy access to information, answer questions and offer guidance on various topics. However, if students rely too much on chatbots, it could potentially stifle their creativity. Creativity involves the ability to generate novel and unique ideas, and chatbots may not be capable of providing truly creative solutions if students rely solely on AI to provide answers to problems they may miss out on the opportunity to think critically and come up with innovative solutions. If chatbots are used as a crutch, students may become overly dependent on them which could limit their ability to think independently and creatively, so instead of using chatbots as a substitute for critical thinking, students should use them as a tool to enhance their learning and explore new ideas.

Implementation

The use of ChatGpt in education can provide several benefits, such as personalised learning and instant feedback. Chatbots can also assist teachers by answering routine queries, grading assignments, and providing additional resources to students. In our teacher's opinion, ChatGpt should be implemented but restrictedly. According to our teachers, we should work along with technology and try to maintain a balance between modern and traditional methods of teaching. The main problem arises from the concern that the student will not be learning. Tho this can be tackled by using a plagiarism checker.

Effect on traditional learning

In this continuously evolving world where nothing is constant, we have to also adapt to new changes. We should simply try to coexist with technology and work in collaboration with it. Chat Gpt cannot replace the traditional mode of education entirely. It can assist in delivering information and answering questions, but it cannot provide the full range of educational experiences that students need to learn effectively.

Traditional modes of education provide a structured learning environment, face-to-face interaction between teachers and students, and opportunities for students to engage in critical thinking, problem-solving and creative activities. These experiences cannot be replicated solely through the use of ChatGpt

However, chat GPT can complement traditional modes of education by providing additional resources for students to learn and practise their skills. It can be used to provide additional examples and explanations, offer personalised feedback, and enhance student engagement and motivation.

Unemployment

The promotion of AI and other advanced technologies may lead to job displacement in some sectors, as certain tasks and processes become automated. However, it is important to note that these technologies also have the potential to create new job opportunities and spur economic growth.

As AI and other technologies become more advanced, there will be a need for individuals with skills in areas such as data analysis, programming, and machine learning. There will also be a need for individuals who can work alongside AI systems to manage, maintain, and optimise their performance.

Individuals and organisations need to adapt to these changes by developing new skills and knowledge and investing in education and training programs that prepare individuals for the jobs of the future. Governments and policymakers also have a role in supporting workers and communities that may be affected by job displacement, through initiatives such as retraining programs and social safety nets. By the end of the day, nothing can truly replace the human mind as AI is a creation of humans and not the other way round.

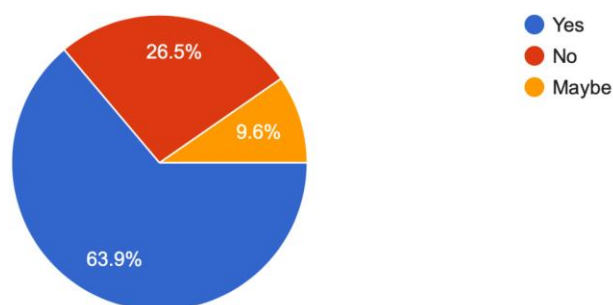
Challenges

Despite all the advantages ChatGpt brings to the education system, there are still a few issues that one faces when implementing it. The main one is Plagiarism. Plagiarism refers to the act of using someone else's work, ideas, or words without giving them proper credit or permission. It is a form of intellectual dishonesty and is considered a serious ethical violation in academic and professional settings. According to our teachers, Using ChatGPT to generate responses is not considered plagiarism, as long as the information provided by ChatGPT is used responsibly and ethically. However, if a user copies and pastes the responses generated by ChatGPT without proper attribution, it could be considered plagiarism. It is important to properly cite any sources used, including ChatGPT, when incorporating information into one's work.

Although change is inevitable, it can be challenging to adjust to it. The response was mostly a positive one. Our teacher believed that ChatGPT was a great platform and had the potential to change the education system forever. It not only gives precise information but does so conveniently. It is a very good tool only if it is used in the right way.

DATA ANALYSIS

Do you use ChatGpt?
83 responses



Out of the 83 respondents

63.9% (53 students) said they use ChatGpt regularly

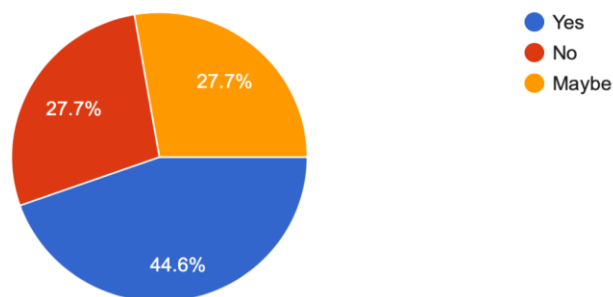
26.5% (22 students) said that they have never tried the service

9.6% (8 students) said they are not sure whether they will use the service or not

Since ChatGpt is a new service not a lot of students were aware of its existence. They were also not aware of the way ChatGpt worked and how it was different when compared to the likes of Google.

Do you think it should be implemented in the education curriculum?

83 responses



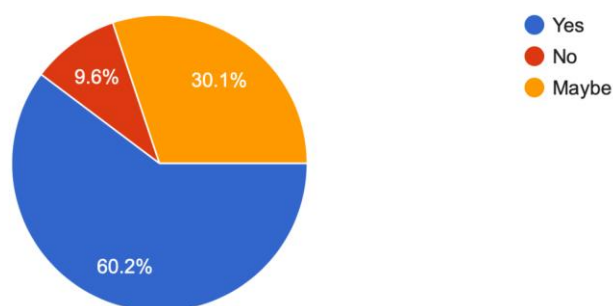
Out of the 83 respondents

44.6% (37 students) said that they think ChatGpt should be implemented in the curriculum
 27.7% (23 students) said that they think ChatGpt should not be implemented in the curriculum
 27.7% (23 students) said that they are on the fence about its implementation in the curriculum
 Students and teachers do believe that ChatGpt should be implemented in the curriculum. They believe that its implementation would take the current traditional method of learning and modernise it.

Still, some believe that it should not be implemented. An important sector like education should be left the way it is as it is tried and tested.

Do you think there will be a coexistence of AI and traditional learning?

83 responses



Out of the 83 respondents

60.2% (50 students) believe that there will be a coexistence of AI and traditional learning

9.6% (8 students) believe that there won't be a coexistence of AI and traditional learning

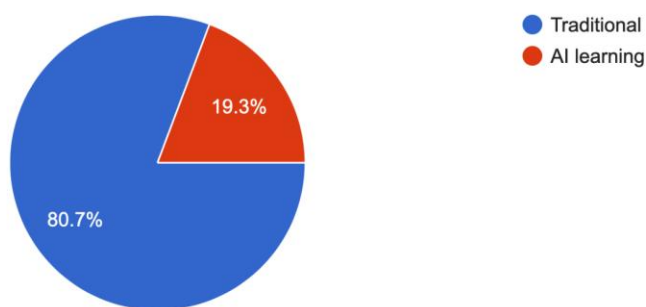
30.1% (25 students) are not sure whether there will be a coexistence between AI and traditional learning

Students and teachers believe that there will be peaceful existence between ChatGpt and the traditional mode of learning. They believe that its addition to the system would be beneficial

in the education sector. It would merge the best of both traditional learning methods and modern tools of explanation allowing for a better understanding of the subject.

Which method of teaching is preferable?

83 responses



Out of the 83 respondents

80.7% (67 students) of students prefer traditional learning methods

19.3% (16 students) of students prefer the AI learning method

Overall most of the students would still choose traditional methods of teaching over AI learning. According to them, AI has not yet reached a point where it is easy and intuitive enough to use. Traditional learning has a personal touch to it that AI just does not have.

RECOMMENDATION

The researcher would like to recommend that, Chat Gpt can be useful when you need to focus on more creative work and can share the workload with AI for any work which requires manpower but it is important to strike a balance between “utilising them as a learning tool and developing independent thinking skills.

Chat GPT can be a useful tool for enhancing traditional modes of education, however, it cannot replace the value of face-to-face interaction and the range of experiences that traditional modes of education have to offer.

An issue that we saw concerning a lot of our teachers was plagiarism. They believed that rather than ChatGpt helping the student by allowing them to be more productive and creative would spoon-feed information making them less creative, and killing their critical thinking ability. One solution that we came up with was a 50% plagiarism check where a student would be allowed to take the help of AI in their essays and projects but only up to 50%.

Whenever a breakthrough technology gets implemented there are a lot of problems arise with it. We have seen it with the rise of the internet. Hence we strongly believe despite the challenges facing AI, it should be implemented.

CONCLUSION

In this paper, we have provided a historical overview of the development of ChatGpt. In addition, we looked at the significant technological developments that enabled the emergence and success of ChatGPT. Instilling a balance between the traditional mode of teaching as well as AI is the need of the hour. Now students don't have to go and surf on hundreds of different websites and find an answer to their solution; they can just refer to ChatGpt for a personalised answer to their query. In education, ChatGPT can be used in tutoring and detecting plagiarism. ChatGPT can also aid researchers with writing, summarising information, and translating. However, many ethical and privacy concerns need to be addressed about ChatGPT. For instance, some users have reported ChatGPT's responses containing race and gender bias. Moreover, given its effectiveness, ChatGPT may be used for unethical purposes in education, including cheating. In research, ChatGPT raises ethical questions about copyright and plagiarism. In terms of privacy concerns, ChatGPT is trained with more than 300 billion words, potentially containing the personal information of internet users. It also provides students with an easy way out to find out their solutions, previously they had the opportunity to refer to different materials to get to know various facts about a particular topic but now they are spoon-fed easy information for their work which kills their inner curiosity to learn. Finally, ChatGPT continues to improve from user interaction, but prompts containing personal information, such as contact, may be processed and even learnt by the model.

