

## Use of Chat-GPT and AI Tools by Undergraduates: Students and Teachers' Perspective

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### Abstract

#### *Introduction*

*This study explores the realm of Chat-GPT and AI Tools, investigating university-level students' and faculties' perspectives and utilization of these technologies. The objective is to obtain valuable perspectives from undergraduate students and faculty members at FUUAST and SALU.*

#### *Methodology*

*We used a qualitative research approach, conducting twelve interviews. Six interviews were conducted, two of which involved university faculty and the other four involved students from the Education/Teacher Education department. The research utilized this methodology to acquire diverse opinions and personal experiences on using Chat-GPT and AI Tools in teaching, learning process.*

#### *Results*

*The study highlighted undergraduates' use of Chat-GPT and AI Tools. Students use these tools for note-taking, assignment writing, lesson planning, and creativity. Though less often than pupils, teachers also use similar tools. Professional growth, question creation, and worldwide educational trends are their uses. The investigation found a worrying trend. Results show a detrimental influence on education quality, student interest, and contextual information awareness.*

*Excessive Chat-GPT and AI Tool use distracts students and lowers academic performance. Students who spent more time on these tools felt more relaxed and reckless, which hurt their grades.*

### ***Implications of the Study***

*Our research shows that institutions must actively address Chat-GPT and AI Tools' negative effects on education. Universities should teach students how to use these technologies properly and constructively to address these issues. This method promotes a healthier technology-academic balance to improve learning and student well-being.*

***Keywords:*** *Chat-GPT, AI Tools, Education, Teachers, Students, Technology, Data*

## **Introduction**

With the advent of Chat-GPT and AI tools, a new age of revolutionary possibilities has begun in education, promising better academic interaction, cooperation, and easier access to information (Aithal & Aithal, 2023). Despite these advantages, some worry that they may have detrimental consequences, such as making students less focused, unable to complete assignments, and more easily distracted. Understanding the consequences of Chat-GPT and AI tools is crucial, especially in higher education, where academic performance is critical for future success, as concerns about their impact on education continue to grow (Atlas, 2023).

Pakistan, a country whose population is expanding at a rapid pace and where the young demographic is particularly large (70% under 35), education ranks relatively high. Universities' role greatly influences future leaders' and professionals' knowledge and abilities in this process. This research examines the viewpoints and possible effects of Chat-GPT and AI tools among Pakistani university undergraduates and faculty (Andleeb & Rafique, 2023).

### **Technological Advancements and Chat-GPT**

The Natural Language Processing (NLP) system known as Chat-GPT, which stands for Generative Pre-Trained Transformer, was developed by Open AI. It is considered to be technologically advanced. Because of its capacity to produce text that is remarkably comparable to that produced by humans, this technology is particularly well-suited for chat-bots and conversational interfaces, which has sparked discussions over its potential use in education. Exploration is centered on the possible advantages that artificial intelligence (AI) systems and chat-bots could bring to the classroom, such as the ability to imitate conversations to increase student engagement (Ajlouni, Wahba & Almahaireh, 2023). The advantages are intriguing; nonetheless, obstacles are involved in rapidly adopting natural language processing models such as Chat GPT or Google's Bard.

## **The Potential and Consequences of AI in Higher Education**

The purpose of this study is to contribute to the ongoing discussion on natural language processing (NLP) in higher education by examining the potential advantages and drawbacks linked to the incorporation of artificial intelligence technology. Artificial intelligence has the potential to completely transform the educational system by automating routine tasks, providing assistance with data analysis, and enabling new kinds of learning and evaluation (Allam, et al., 2023). Despite this, there are discussions and difficulties around its implementation in the classroom.

### **Chat-GPT's Role in Academic Success**

Chat-GPT has garnered interest because it has the potential to make certain forms of written university examinations easier for students to complete. The capabilities of this software extend to generating summaries of books, research, and creative essays for undergraduate students. Nevertheless, this raises worries regarding the possibility of misuse, such as developing thesis papers using automated means (Aithal & Aithal, 2023). The field of education is at the vanguard of this transition as artificial intelligence technologies continue to transform society gradually.

### **Opportunities and Challenges in Pakistani Universities**

The importance of studying the influence of Chat-GPT on students cannot be overstated at Pakistani universities, which are experiencing a rise in the rate of digitalization and technological advancement. Incorporating artificial intelligence technologies such as Chat-GPT presents opportunities and challenges. On the one hand, technology provides students with rapid access to knowledge, making it easier to understand topics (Andleeb & Rafique, 2023). The other side of the coin is that there are concerns regarding the dependability of the information and the possibility that it may be misused.

Within this ever-changing environment, the purpose of this research is to investigate the utilization of Chat-GPT and AI Tools entirely to throw light on the viewpoints of both students and teachers. In the following parts, we will go into the methodology, results, and consequences of this study, which will provide significant insights into the intricate relationship between education and technology in Pakistan.

This research aims to thoroughly investigate the utilization of Chat-GPT and AI Tools, providing insights into the viewpoints of both students and teachers in the ever-changing educational environment. The next parts will explore the literature review, methodology, results, and consequences of this study, offering unique insights into the intricate relationship between technology and education in the Pakistani setting.

### **Objectives of the Study**

1. To assess the perceptions and practices of Chat-GPT and AI tools among undergraduate students at the university.
2. To explore teachers' and students' perspectives on the integration of Chat-GPT and AI tools on academic performance, student engagement, and overall learning experience.

3. To identify potential challenges and benefits associated with the use of Chat-GPT and AI tools in an educational setting.

### **Questions of the Study**

1. How do undergraduate students perceive the use of Chat-GPT and AI tools in their learning experiences?
2. How do teachers and students perceive the effectiveness of Chat-GPT and AI tools in enhancing their teaching methods?
3. What are the major challenges faced by both students and teachers in the use of Chat-GPT and AI tools?

### **Literature Review**

Natural Language Processing (NLP) models have been the subject of research since the 1950s; moreover, it was in the 2010s that these models received significant attention and made significant advancements. Methods of deep learning and the use of enormous datasets were significant contributors to this advancement (Barbas, Vieira, & Branco, 2023). These days, there is a lot of discussion concerning implementing artificial intelligence (AI) technologies, such as Chat-GPT, in educational settings. On the other hand, there are issues and difficulties, particularly concerning the implementation of AI in educational settings.

Technologies based on artificial intelligence (AI), such as Chat-GPT, are becoming increasingly significant in education worldwide. Schools are interested in learning more about how artificial intelligence may improve learning. To comprehend how Chat-GPT influences students attending colleges, it is necessary to examine the cultural, linguistic, and academic context in which they are immersed (Baskara, Puri, & Wardhani, 2023). There is a significant concern in schools that artificial intelligence systems could reinforce discrimination and bias. In addition, there is a worry that artificial intelligence systems could be abused to provide biased outcomes. As the year 2022 came to a close, an innovative artificial intelligence system known as Chat-GPT had been developed. Generators are a set of technologies that include this particular sort of artificial intelligence based on language. Please consider that it is a chat-bot trained on a vast amount of web content to respond to various questions that sound natural. This type of AI system can process and generate text data (Castillo, et al., 2023).

### **The Role of Artificial Intelligence (AI) in Academia**

Artificial intelligence (AI) Chat-GPT and chat-bots are becoming increasingly important in the academic world since they offer major resources to researchers and academics alike. The need for quick and effective information processing and the growing significance of large-scale data are driving the transformation (Elbanna & Armstrong, 2023). At the academic level, artificial intelligence, chat-GPT, and chat-bots cover various fields, all contributing to advancing education and research. Nevertheless, the implementation of technology in educational settings raises concerns concerning the comprehension of the material, the application of the technology, and the

ethical implications of the use of technology. Artificial intelligence is significantly altering the research process in academic institutions. In addition to analyzing large amounts of data, it can recognize patterns and extract insights that may be difficult for individuals to comprehend (Fuchs, 2023). This benefits fields with vast datasets, such as healthcare, social sciences, and scientific research. The researcher's access to relevant information can be sped up using chat-bots driven by artificial intelligence, which can optimize their work's phases, including data collection and analysis. Using chat-GPT and chat-bots in educational settings is intended to enhance both the teaching and learning processes. Both teachers and students can benefit from their use as virtual assistants since they can provide instant responses to questions, help with academic assignments, and allow students to participate in interactive educational experiences. Artificial intelligence (AI) technology, such as natural language processing (NLP) models, makes it possible to create chat-GPT and chat-bots that can comprehend and respond to human language (Firat, 2023). As a result, chat-GPT and chat-bots are extremely effective teaching tools. When it comes to simplifying administrative tasks at academic institutions, artificial intelligence (AI), chat-GPT and chat-bots are becoming increasingly popular forms of technology. They can automate repetitive administrative duties, such as replying to requests, organizing schedules, and distributing information connected to courses. Implementing this automation increases efficiency, enabling academic workers to devote more time to important activities such as teaching and research (Grassini, 2023). The ability of artificial intelligence, chat-GPT and chat-bots to provide individualized help to students is a significant contribution they have made to the field of education. Chat-bots and chat-GPT offer the capacity to adjust to the interests of individual learners, provide appropriate study materials, and aid with academic concerns. Students can navigate their academic path more efficiently and successfully by adopting a personalized strategy, which also helps to create a welcoming learning atmosphere (Huallpa, 2023).

The utilization of Chat GPT and Google Bard in student learning signifies a revolutionary change in higher education, harnessing advanced language models to offer authentic and improved responses, hence enhancing the learning experience. OpenAI created Chat-GPT, an advanced natural language processing (NLP) model (He, Ying, Wang & Sun, 2023). This AI system was specifically developed to generate text that resembles human language. It has been utilized in various applications, such as chat-bots and conversational interfaces. Google Bard is an additional language model created to produce coherent and authentic replies to different triggers, similar to Chat-GPT. It is a component of the wider scope of generative language models. The total educational experience Natural Language Generation: Chat GPT and Google Bard can generate responses that resemble human language, resulting in a natural-sounding output. This feature is crucial in facilitating captivating and authentic interactions in educational environments (Islam & Islam, 2023).

These models possess adaptability and can be utilized in diverse educational situations, offering prospects for inventive teaching approaches. Language Acquisition: Chat GPT and Google Bard can facilitate language acquisition by offering students interactive opportunities to

practice and improve their language skills. Students can interact with these chat-bots to enhance their language proficiency in an authentic and contextualized way (Imran & Lashari, 2023).

These models can assist students in research by producing summaries, responding to queries, and offering insights into intricate subjects. This support facilitates the research process and provides a great resource for students. Acquiring knowledge and gaining new skills. The responses provided by Chat GPT and Google Bard have a natural tone, which helps create interactive learning environments. Students can interact with these models dialogue-based, increasing their curiosity and active participation in the learning process (Kanabar, 2023). The chat-bots generated using these models can provide on-demand assistance to students, delivering clarification, explanations, and more information as required.

### **Use of Chat-GPT Beneficial for Students**

The application of Chat-GPT in education offers numerous advantages that greatly enhance student learning experiences. Researchers have determined that a key benefit is the ease it provides, allowing pupils to access information instantly. This level of accessibility promotes autonomous learning, enabling students to explore educational materials at their preferred speed. Kanabar in (2023) did a study highlighting this characteristic's beneficial effect, emphasizing its role in promoting a more individualized and self-directed approach to learning. Given the circumstances in Pakistan, where students may face difficulties with their language skills and limited time, the prompt availability of information via Chat-GPT is particularly advantageous. The technology serves as a helpful aid in overcoming language hurdles, enabling pupils to understand intricate subjects in a language they are familiar with. This flexibility is due to the wide range of linguistic origins common in Vietnam's educational environment. The Chat-GPT's support of many languages greatly enhances its usefulness in Vietnamese teaching. This functionality is especially important, given the wide range of languages pupils speak (Kaplan, et al., 2023). According to Jones and Wang's research in 2019, Chat-GPT's capacity to support several languages fosters inclusion by allowing students from diverse linguistic backgrounds to access educational resources in their preferred language. This inclusivity not only helps to overcome linguistic barriers but also enhances the fairness of the learning environment.

Chat-GPT serves as a mediator for an all-encompassing and tailored educational encounter. Catering to multiple languages effectively tackles language-related obstacles, creating a setting where students can interact with educational material according to their linguistic inclinations. Consequently, this has a beneficial impact on their understanding, involvement, and overall educational achievements (Karakose & Tülübaş, 2023).

Chat-GPT's ability to provide knowledge at a pace determined by the user is compatible with the unique learning preferences of pupils. Within the realm of education, where time limitations are frequently encountered, this tool enables students to take control of their learning at their preferred pace. This level of autonomy fosters a feeling of possession and control over the learning process, which encourages a more inherent and driven approach to education (Laato, et al., 2023).

The advantages of utilizing Chat-GPT in education go beyond simply convenience. The software's ability to support several languages accommodates the varied linguistic origins of pupils, fostering inclusivity and overcoming language barriers. The technology enables self-directed learning, allowing students to independently explore instructional resources at their preferred speed, resulting in a more customized and captivating learning experience. Given the ongoing importance of technology in education, tools such as Chat-GPT serve as valuable partners in establishing accessible, inclusive, and efficient learning environments (Michel, et al., 2023).

### **Challenges and Concern with Artificial Intelligence (AI)**

Implementing Chat-GPT, despite its potential advantages, presents several challenges and concerns that require careful deliberation. An essential issue is the dependability of information obtained by Chat-GPT. Marzuki et al., (2021) highlight the importance of students critically assessing material acquired by AI systems to verify its accuracy and prevent the spread of disinformation. This highlights the significance of instructing students to develop a critical perspective while utilizing resources powered by artificial intelligence. An additional issue arises from the possible consequences on students' critical thinking and self-directed learning skills due to an undue dependence on Chat-GPT (Michel et al., 2023). Relying excessively on AI for information retrieval can impede active involvement with course contents and impede the cultivation of analytical abilities. Although natural language processing (NLP) models such as Chat GPT and Google Bard have significant potential, they face numerous challenges and ethical dilemmas that require solutions. The literature emphasizes the importance of prioritizing precision, with data privacy and security being significant ethical concerns. Chat GPT's use of large data to generate responses raises concerns regarding students' personal information privacy and security. To protect student data and avoid unauthorized entry, researchers emphasize the significance of implementing strong privacy policies, data encryption, and conducting informed consent procedures (Neumann, Rauschenberger & Schön, 2023).

The training data's quality, diversity, and intricacy, combined with student input, greatly impact the system's accuracy. If the training data lacks diversity or is subpar, the system may acquire erroneous patterns, resulting in imprecise replies. Furthermore, the intricacy of input data, particularly idiomatic phrases and linguistic subtleties, might affect the precision of NLP models. Ethical considerations also involve the possibility of technology being exploited and misused (Perera & Lankathilaka, 2023). The capacity of Chat-GPT to produce text that resembles human writing renders it vulnerable to potential misuse, such as disseminating disinformation or impersonation. Implementing safeguards is crucial to prevent technology misuse and ensure that individuals are held responsible for any misconduct.

Perera and Lankathilaka (2023) emphasize that the accuracy of the model might be influenced by the quality of the input data provided by students. It is essential to update the regulations establishing the concepts and requirements for credible writing in student theses and supervision methods. This pertains to both national legal statutes and internal university policies. The obstacles arise from the lack of clarity, brevity, and pertinence of students' input, particularly

when they are unsure about the necessary information or lack the linguistic proficiency to express their questions clearly. Thoroughly assessing and tackling these difficulties is crucial for optimizing the beneficial effects of Chat-GPT while minimizing potential hazards and ethical dilemmas in educational environments (Pradana, Elisa & Syarifuddin, 2023).

### **Impact on Students Academic Performance**

The influence of Chat-GPT on students' learning experiences and academic performance is a complex topic that has received much attention in educational research. With the ongoing advancement of technology, it is vital to comprehend the impact of AI tools such as Chat-GPT on student achievements. Preliminary research, exemplified by the study conducted by Johnson et al. in 2021, suggests a favorable association between using artificial intelligence (AI) tools such as Chat-GPT and enhanced academic achievement (Rudolph, Tan & Tan, 2023). Conversations with Chat-GPT enhance understanding and memory of course material by providing instant support and reinforcing information. Students who utilize these AI technologies appear to gain advantages from the readily available assistance, which enhances their comprehension of intricate subjects and strengthens their learning. Nevertheless, experts also stress the significance of achieving a careful equilibrium between applying AI tools and developing critical thinking abilities. Although Chat-GPT and similar technologies can provide essential assistance, Rasul et al. (2023) emphasize the importance of educators promoting that these tools should be considered supplementary resources rather than replacements for individual study and analysis.

An important benefit of Chat-GPT in increasing learning experiences is its capacity to offer prompt support. Students can actively participate in dynamic dialogues with Chat-GPT to obtain clarification, pose inquiries, or enhance their comprehension of particular subjects. The immediate exchange of information promotes an active educational setting that accommodates each individual's unique learning speeds and preferences (Sharma & Yadav, 2022).

Utilizing AI-driven discussions enhances the recall of course content by reinforcing information. The ability of Chat-GPT to provide responses that sound natural enhances the learning experience, making it more captivating and memorable for students. Consequently, students may have enhanced comprehension and long-term retention of intricate ideas, ultimately positively influencing their academic achievement.

Nevertheless, the obvious benefits, scholars underscore the necessity for a deliberate strategy in incorporating AI tools into the educational domain. According to Rasul et al. (2021), educators are vital in appropriately guiding students to utilize AI tools. Instead of depending only on these tools, it is advisable to encourage pupils to perceive them as additional resources to conventional methods, promoting a well-rounded and thorough approach to learning.

The demand for equilibrium arises from the apprehension that excessive dependence on AI tools could impede the cultivation of analytical reasoning abilities. Autonomous investigation and examination are essential elements of intellectual development, and instructors are responsible for fostering these abilities. Promoting the prudent utilization of AI tools among students, in conjunction with conventional research methodologies, guarantees a comprehensive approach to



education that amalgamates the advantages of technology with the vital abilities of autonomous investigation (Sullivan, Kelly & McLaughlan, 2023).

Ultimately, the influence of Chat-GPT on learning experiences and academic performance is a complex domain that encompasses both favorable and cautionary factors. Although AI tools can improve comprehension and memory through instant support and reinforcement of information, it is crucial to maintain a balance and highlight the complementary role of these tools. Educators have a crucial role in directing students towards proficient utilization of AI tools, promoting a combination of technology assistance and the development of critical thinking abilities through a blended learning approach (Whalen & Mouza, 2023).

### **Approaches for Maximizing Advantages**

Full utilization the capabilities of Chat-GPT in education, it is crucial to adopt strategic methods that not only optimize advantages but also tackle any obstacles. An essential approach entails integrating the responsible utilization of AI into educational methodologies. Teachers are crucial in instructing students to incorporate AI as an additional tool in their educational process. Educators can enhance technology integration into the educational process by incorporating AI-related activities into the curriculum. This approach aligns with the concept that AI should be seen as a supplement to conventional learning methods rather than a substitute (Allam, et al., 2023). It is essential to give utmost importance to fundamental concepts like data ethics, privacy, and transparency to incorporate AI technologies effectively. Institutions should set unambiguous standards and policies to uphold ethical data practices, protect students' privacy, and promote openness in using AI tools. This is especially pertinent because AI technologies frequently entail the manipulation and examination of extensive datasets, giving rise to apprehension over potential data security and privacy infringements (Aithal & Aithal, 2023). Complying with ethical standards is a mandatory regulation and a crucial element in establishing trust among students, educators, and stakeholders.

Implementing these tactics can result in more conscientious and efficient assimilation of Chat-GPT and comparable AI solutions inside educational environments. By guiding students on the proper utilization of AI, educators enable them to harness technology as an adjunct to conventional learning approaches. By concurrently prioritizing data ethics, privacy, and transparency, a secure and reliable environment may be established for implementing AI technology in education. These techniques offer guidance for harnessing the advantages of AI and addressing any potential difficulties as the field of education progresses (Barbas, Vieira, & Branco, 2023).

### **Major Challenges Faced by Students and Teachers**

Incorporating Chat-GPT and other artificial intelligence tools into educational environments poses a unique set of issues for both students and teachers. To design effective strategies to capitalize on the benefits of these technologies while limiting the potential

disadvantages, it is essential to have a solid understanding of these specific difficulties (Whalen, & Mouza, 2023).

## **Student Challenges**

### **Distraction and Overreliance**

A major hurdle that students encounter is their inclination to excessively depend on Chat-GPT and AI tools. Although these instruments provide important aid, an overreliance on them might result in distraction and a decrease in self-sufficiency. Students may become dependent on these technologies for tasks they should manage autonomously, which can have a negative impact on their overall growth and progress (Sharma & Yadav, 2022).

### **Quality of Information**

There may be cause for concern regarding the dependability and accuracy of Chat-GPT's information. Students might need help to discern between credible and non-credible information, which could lead to the transmission of false information in their academic tasks. It could be a problem for students evaluating content generated by artificial intelligence; it is essential to prioritize developing students' critical thinking skills.

### **Ethical Use and Plagiarism**

There are ethical considerations around plagiarism that arise as a result of the convenience with which Chat-GPT can generate text. Students may be persuaded to use AI-generated content without providing correct attribution, which could result in academic dishonesty. For educational institutions to be able to detect and discourage plagiarism while simultaneously training students on how to create ethical content, powerful methods are required (Hualpa, 2023).

### **Limited Understanding of Technology**

Certain students may have difficulty comprehending the technology that lies beneath Chat-GPT and AI platforms. This lack of comprehension can make it more difficult for them to use these technologies, reducing the potential benefits they could provide. It is the responsibility of educational institutions to offer students with sufficient training and resources to improve their technical literacy.

### **Privacy and Security Concerns**

Concerns regarding privacy and security are raised while using AI tools because they frequently require the sharing of personal data (Hussain, et al., 2023). It is necessary to establish explicit norms and protections to preserve the students' privacy and alleviate any concerns they may have regarding the confidentiality of their interactions with these tools.

## **Challenges for Teacher**

### **Integration into Pedagogy**

When educators attempt to include Chat-GPT and AI tools into their educational practices in a transparent manner, they face a number of problems. When it comes to incorporating new technologies into the curriculum that is already in place, time and training are both necessary components. With that being said, it is possible that not all educators possess the knowledge or the self-assurance necessary to include AI tools into their instructional strategies (Castillo, et al., 2023).

### **Limited Access and Resources**

There are discrepancies among educators due to unequal access to technology and resources. Some educators must gain the skills and resources necessary to incorporate artificial intelligence in their classrooms successfully. Providing equal access to resources and opportunities for professional growth is necessary to guarantee universal acceptance and effectiveness.

### **Ethical Use and Academic Integrity**

When it comes to preserving academic integrity and promoting ethical usage of artificial intelligence tools, teachers face a difficulty. It is vital, in order to maintain the integrity of assessments and assignments, to establish clear norms and expectations for the appropriate use of content that is generated by artificial intelligence software (Huallpa, 2023).

### **Continuous Learning and Adaptation**

Artificial intelligence (AI) is a dynamic field that is always being updated and advanced. Educators are required to engage in ongoing learning in order to keep up with the latest breakthroughs and make the most of the use of artificial intelligence tools in their classrooms. It is essential for teachers to have access to opportunities for professional development and a learning environment that is supportive in order for them to successfully adapt.

## **Research Methodology**

This study applied a qualitative research approach to investigate and assess the effects of Chat-GPT usage on students attending institutions in Pakistan. Qualitative data analysis facilitates a more profound comprehension of participants' perspectives, encounters, and the contextual elements that influence their interactions with Chat-GPT. This section provides an overview of the main elements of the research design, including the research methodology, methods for collecting data, individuals involved, and procedures for analyzing the data. Semi-structured interviews: Conducted were semi-structured interviews with a varied sample of students from two distinct colleges. Interviews comprehensively examine participants' experiences, attitudes, and issues about Chat-GPT. A standardized interview guide will be created to maintain uniformity during interviews while allowing participants to expand their answers. A purposive sampling approach was utilized to enlist a varied set of individuals. Six interviews were conducted, two of which involved university faculty and the other four involved students from the Education/Teacher Education Department. The sample consisted of undergraduate students and faculty from the teacher education department.

### Data Analysis

The next section examines the viewpoints of students and teachers at the University of Pakistan about the influence of Chat-GPT and AI tools on educational standards. Some educators believe that Chat-GPT and AI technologies can improve student learning, technology skills, and knowledge. However, others express concerns about the potential adverse impact on students' academic performance and engagement. Interviews were conducted to gather information regarding Chat-GPT and AI technologies, as Chat-GPT is widely regarded as the most popular platform for obtaining information and completing written projects. Many participants indicated that Chat-GPT is utilized for educational objectives, mostly via generating innovative content, formulating inquiries, disseminating information, and engaging in conversations (Fuchs, 2023). Chat-bot was the second most utilized platform for academic reasons, such as tutorials and lecture uploads. The respondents highlighted the drawbacks of employing Chat-GPT and AI tools in higher education, such as inequitable access to technology resources and the necessity for explicit policies and guidelines. Enhancing teacher development and promoting awareness among instructors were also considered significant. Most respondents had a good view of Chat-GPT and AI as helpful tools in the teaching and learning process. However, issues were raised about their appropriateness and the required level of work. In general, the influence of Chat-GPT and AI technologies on education is intricate and contentious, and empirical investigation is required to gain a deeper comprehension of its possible advantages and disadvantages.

#### *Teachers Perspective:*

Q.1	What is your assessment of the influence of Chat-GPT and AI tools on your teaching methods and overall instructional strategies?	Summary of the teachers perspective
<b>Teachers Perspective</b>	Chat-GPT and AI tools have an important effect on teaching approaches by providing novel opportunities for engagement and collaboration. For example, they can enable customized learning experiences, assist in automating repetitive procedures, and offer supplementary materials for educators and learners. Nevertheless, considering potential obstacles, such as adequate instruction, ethical discussions, and an appropriate balance between technology and human engagement, is crucial. To effectively incorporate AI technologies into teaching methods, careful strategic planning, ongoing evaluation, and careful consideration of	Using Chat-GPT and AI tools changes the way we teach by creating new ways to engage students, automating jobs, and making learning more personalized. When trying to improve education, problems like training, ethics, and

	<p>the specific requirements of each educational environment are essential.</p>	<p>finding a balance between technology and people must be thought about. To integrate well, you need to plan ahead, keep evaluating, and make changes based on each school's needs.</p>
	<p>Chat-GPT and AI tools change how we teach because they give students new ways to connect and be interested. They can give teachers and students more tools, help automate routine jobs, and personalize learning. It's important to think about the problems that could arise, such as the need for proper training, moral concerns, and discovering the best way to mix individuals with technology. To make AI tools useful for teaching, they need to be carefully thought out, tested all the time, and changed to fit the needs of each institute.</p>	
Q.2	<p>What challenges have you encountered in integrating Chat-GPT and AI tools into your teaching, and how have you addressed or overcome these challenges?</p>	<p>Summary of the teachers perspective</p>
	<p>As a faculty member, I encounter difficulties incorporating Chat-GPT and AI tools due to the need to adapt to new technology, cater to diverse student ability levels, and effectively handle unwanted distractions. Addressing such challenges typically requires engaging in personal and professional growth via online courses, receiving individualized guidance through mentoring, and establishing explicit protocols for the proficient utilization of tools in the classroom.</p>	<p>As a faculty member, employing Chat-GPT and AI technologies requires adapting to new technology, meeting the needs of students with different abilities, and managing distractions. Personal and professional growth through online courses, individualized</p>
	<p>Adapting to new technology, managing students' varying skill levels, and keeping an eye out for potential distractions are all challenges I have as a professional educator while attempting to integrate Chat-GPT and AI tools. Online classes, mentorship, and establishing ground rules for efficiently using classroom technology are common solutions to these issues.</p>	

		coaching, and classroom tool protocols may resolve these issues.
Q.3	How do you think Chat-GPT and AI tools affect the way students and teachers interact, and what changes, if any, have you done to ensure that there is still good communication in the classroom?	Summary of the teachers perspective
	<p>ChatGPT and AI tools can potentially transform student-teacher relationships by offering novel paths for information sharing. Teachers may need to modify their communication skills to harmonize conventional approaches and technological integration. Possible adjustments include:</p> <p>Implementing explicit guidelines for using tools.</p> <p>Encouraging transparent debates regarding their effects.</p> <p>Cultivating a cooperative atmosphere to uphold efficient communication inside the classroom for the learning process.</p>	<p>Chat-GPT and AI tools changed how students and teachers talked to each other by opening up new communication methods. Now, I need to improve communication in the classroom.</p>
	I believe that Chat-GPT and other AI tools have the potential to impact student-teacher interactions by providing novel avenues of communication. In order to facilitate efficient communication inside the classroom, it is crucial to modify instructional techniques, encourage transparent conversations regarding the utilization of educational tools, and uphold a harmonious equilibrium between technology and conventional teaching methodologies.	<p>Teachers need to change how they teach, encourage open conversations about how to use tools, and keep a balance between using technology and traditional teaching methods. It means setting clear rules, encouraging</p>

		students to work together for the learning process, and welcoming all technological changes.
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### Discussion

The discussion highlights the profound influence of Chat-GPT and AI technologies on teaching methodologies, underscoring the potential advantages such as personalized learning experiences and automated activities. The text appropriately recognizes the significance of considering obstacles such as ethical considerations, adequate training, and achieving a harmonious equilibrium between technology and human interaction (Fuchs, 2023). The difficulties encountered by a faculty member in incorporating Chat-GPT and AI tools are clearly expressed, addressing the necessity for personal and professional development, tailored assistance, and establishing norms for efficient tool implementation. These observations emphasize the ever-changing nature of incorporating technology into education and the ongoing effort needed to tackle related difficulties. The inquiry regarding the influence of Chat-GPT and AI tools on student-teacher interactions is addressed with careful consideration. The prioritization of adjusting communication abilities, enforcing protocols, and cultivating open dialogues demonstrates a proactive stance toward upholding efficient communication inside the classroom. The reference to fostering a collaborative environment corresponds to integrating conventional and technological instructional approaches. Ultimately, the topic effectively encompasses the inherent duality of Chat-GPT and AI tools, which serve as instruments that offer new possibilities while simultaneously posing difficulties (Firat, 2023). The educator and teacher's comments demonstrate a dedication to flexibility, continuous learning, and meticulous handling of technological integration to guarantee favorable results for educators and pupils.

### *Students Perspectives:*

Q.1	What specific tasks do you find Chat-GPT and AI technologies most beneficial for, and how would you describe your experience utilizing them in your academic pursuits?	Summary of the students perspective
	Chat-GPT and AI technologies are very helpful for me for ideation, producing preliminary drafts of writing assignments and obtaining fast elucidations of difficult topics. Overall, the experience was highly	I am able to come up with ideas, write rough drafts, and understand complicated subjects

<p>beneficial, improving my academic performance, knowledge, productivity, and efficiency in my academic endeavors.</p>	<p>much more rapidly with the help of Chat-GPT and AI technology. All things</p>
<p>I find that Chat-GPT and AI technologies are quite helpful for me in generating ideas, making early drafts of presentations, writing different tasks, planning lessons, and gaining quick explanations of complex subjects such as psychology and research. My overall academic performance, knowledge, productivity, and efficiency in my academic efforts all improved due to the chat-GPT experience, which was quite beneficial.</p>	<p>considered, the experience is a huge boon to efficiency, production, knowledge, and academic achievement. They are useful for a wide range of activities, from making</p>
<p>I find that Chat-GPT and AI technologies are fairly helpful and challenging for me in a variety of ways, including the generation of opinions about poster making, the creation of early drafts of presentations, the drafting of various written assignments, the planning of lessons, and the acquisition of rapid explanations of complex topics such as research and psychology. Because of the chat-GPT experience, which was highly beneficial, I increased my general academic performance and my knowledge, productivity, and efficiency in my academic efforts throughout the year.</p>	<p>presentations to learning about psychology and research, and they significantly enhance students' academic performance as a whole.</p>
<p>In many ways, I find Chat-GPT and AI technologies to be both helpful and challenging. For example, I use them to generate display ideas, make first presentations, draft various written assignments, plan lesson structure, and quickly understand complex subjects like psychology and research. I improved my overall academic performance and knowledge, productivity, and efficiency in my academic endeavors throughout the year as a result of the chat-GPT experience, which was quite beneficial.</p>	



Q.2	Have you noticed any impact, positive or negative, of using Chat-GPT and AI tools on your academic performance and engagement with coursework? If yes, can you provide specific examples?	Summary of the students perspective
	Yes, I have seen the good and the bad effects. Positively, I've found that Chat-GPT is useful for both rapid information gathering and idea generation. But there are moments when it gets in the way and makes it hard to concentrate. For example, I do well when I use it for research, but I tend to put things off when I use it for assignments.	All students highlighted both the favorable and unfavorable consequences of utilizing ChatGPT. They perceive it as advantageous for developing ideas and acquiring timely information, especially in the study context. Nevertheless, technology can sometimes be a diversion, diminishing concentrated study time, particularly when working on tasks, resulting in procrastination. Overall, the user notes that Chat-GPT has a dual impact on academic engagement and performance.
I have observed both positive and negative effects. One of the beneficial aspects of ChatGPT is that it has been useful for generating ideas and obtaining information on time. However, there are times when technology can be a distraction, which can reduce sustained study time. As an illustration, I find it useful when conducting research; yet, while I am working on projects, it can sometimes cause me to put things off till later.		
Indeed, I have observed both positive and negative consequences. Chat-GPT has proven to be beneficial for generating ideas and obtaining prompt information. Nevertheless, technology can occasionally serve as a source of diversion, resulting in a decline in concentrated academic efforts. When utilized for research purposes, I find it advantageous, yet when employed for tasks, it occasionally results in procrastination.		
In reality, I have observed both positive and negative consequences. Chat-GPT has proven to be beneficial for generating ideas and obtaining prompt information. Nevertheless, technology can occasionally serve as a		

	source of diversion, resulting in a decline in concentrated academic efforts. When employed for research purposes, I find it advantageous, yet when employed for tasks, it occasionally results in procrastination.	
Q.3	What challenges do you face when integrating Chat-GPT and AI tools into your academic work, and what are your recommendations for enhancing this integration?	Summary of the students perspective
	<p>in my opinion Academic use of Chat-GPT and AI brings intriguing opportunities and problems. Since these tools may not match subject requirements, integrating them into coursework structures is difficult. It takes time to master these tools' features, which can slow down workflow. Investment in comprehensive student training programs to help them navigate and maximize these tools' potential will improve integration. In addition, creating a collaborative space where students may discuss tool usage tips can help overcome integration issues. Continuous feedback loops between students and educators and specialized support resources are essential to optimizing Chat-GPT and AI tool incorporation into academic environments.</p> <p>From my perspective The use of Chat-GPT and AI tools into academic work offers intriguing opportunities as well as obstacles. A significant challenge is in providing a smooth integration into current coursework systems, as these technologies may not always fully correspond with specific subject needs. Moreover, there is a period of adjustment required to fully understand and utilize the features of these tools, which may initially impede the efficiency of the work process. In order to promote integration, it is imperative to allocate resources towards comprehensive training programs for students, equipping</p>	<p>The implementation of Chat-GPT and AI in academia offers both prospects and obstacles. Incorporating these tools into coursework can provide challenges due to possible discrepancies with subject prerequisites. Acquiring proficiency in the functionalities of these tools requires a significant amount of time, which directly affects workflow efficiency. Investment in comprehensive student training programs is essential for enhancing integration. Establishing a communal environment where students may exchange advice on using</p>

	<p>them with the necessary skills to effectively utilize and optimize the capabilities of these technologies. Furthermore, cultivating a cooperative atmosphere in which students may exchange advice and perspectives on the efficient utilization of tools will greatly aid in surmounting integration obstacles. Continuous feedback loops between students and instructors, together with dedicated support resources, are crucial for improving and optimizing the integration of Chat-GPT and AI tools in academic environments.</p>	<p>tools effectively resolves integration challenges. Uninterrupted feedback loops and tailored assistance are crucial for maximizing the efficiency of Chat-GPT and integrating AI tools in academic settings.</p>
	<p>Academic usage of Chat-GPT and AI presents exciting prospects and challenges. Integrating these tools into coursework is problematic since they may not fit subject requirements. These tools take time to learn, slowing workflow. Comprehensive student training to navigate and exploit these technologies' capabilities will increase integration. In addition, a collaborative environment where students can discuss tool usage recommendations can aid with integration. Students and educators need continuous feedback loops and specialized support to optimize Chat-GPT and AI tool use in academic settings.</p>	
	<p>Academic use of Chat-GPT and AI seems like it could be both exciting and difficult for me. Using these tools in schoolwork is hard because they might not meet the topic's requirements. Getting good at these tools takes time, which slows down work. More integration will happen if students are fully trained to use and understand these technologies. Integration can also be helped by a shared space where students can discuss how to use tools best. To get the most out of using Chat-GPT and AI tools in school, students and teachers need ongoing feedback loops and expert help.</p>	

## **Discussion**

Participants agree on the advantageous characteristics of Chat-GPT and AI technologies, specifically in generating ideas, creating initial drafts, and obtaining prompt clarifications on intricate subjects. The total experience is widely regarded as extremely advantageous, with notable enhancements in academic achievement, knowledge acquisition, productivity, and efficiency environments (Islam & Islam, 2023).

All participants recognize the favorable and unfavorable consequences of utilizing Chat-GPT and AI tools. Indeed, these technologies are lauded for their ability to absorb information and generate ideas swiftly. Nevertheless, participants acknowledge instances of diversion and possible delay to highlight the difficulties in maintaining continuous focus (Imran & Lashari, 2023).

Participants emphasize the difficulties of incorporating Chat-GPT and AI tools into coursework designs due to potential discrepancies with subject requirements. Acquiring knowledge about the characteristics of these technologies is acknowledged as a time-intensive procedure that affects the efficiency of tasks. Recommendations universally stress the importance of implementing extensive student training programs, creating collaborative spaces for conversations on tool usage, and establishing regular feedback loops with educators to achieve effective integration (Kanabar, 2023). The significance of allocating resources and fostering a collaborative environment is underscored to surmount initial challenges in adjusting to these technologies.

Participants show a refined comprehension of the advantages and difficulties linked to Chat-GPT and AI technologies, offering useful perspectives on their incorporation into academic settings. Their proposals emphasize the importance of training, collaboration, and continuous assistance to improve the smooth integration of modern technologies into educational practices.

## **Conclusion**

The study's findings indicate that all participants acknowledge the beneficial characteristics of Chat-GPT and AI technologies in academic environments, namely in terms of generating ideas and improving task efficiency. Although there have been good effects, participants recognize obstacles such as interruptions and setbacks, underscoring the importance of maintaining unwavering attention. The challenge of incorporating modern technologies into coursework is emphasized, emphasizing the necessity of thorough training, teamwork, and feedback loops for successful implementation. The study highlights the participants' sophisticated comprehension of the benefits and challenges linked to new technologies, offering useful insights for educational practices.

## **Implication of the Study**

The findings indicate significant implications for teaching approaches, highlighting potential benefits such as individualized instruction and automated tasks. The identification of ethical considerations and the provision of sufficient training are recognized as key aspects. The difficulties encountered by faculty members emphasized the necessity for professional growth and

customized support in the application of tools. The study highlights the continuous endeavor needed to tackle the ever-changing issues in the integration of technology in education.

### **Future Research Direction**

Future studies should examine the long-term implications on learning outcomes and the dynamic nature of technology integration relating to Chat-GPT and AI technologies' influence on teaching approaches. It is necessary to conduct further research on moral issues, the best training methods, and how to create standards for using tools. Furthermore, studies could examine the changing nature of student-teacher relationships in technologically advanced classrooms, investigating communication techniques and the fusion of traditional and technological teaching pedagogies. According to the study, more research is necessary to adjust teaching methods to the rapidly evolving field of educational technology.

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