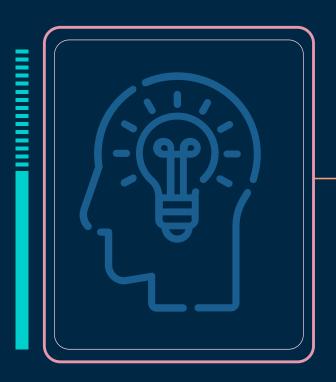
CHATGPTS IMPACT ON ACADEMIA

By: Jeel Vekaria, Munta Islam, Vincent Huynh, Manav Parmar

WHAT IS CHATGPT?

- ChatGPT is an advanced language model developed by OpenAI
- Its purpose is to push the limits of what a powerful AI system can achieve
- It can provide answers to any questions the users may have with a high accuracy
- ChatGPT uses language patterns to analyze the context of a prompt and generate a fitting response



The Main Issue

- Some students use ChatGPT for getting help with homework
- While some students use it to cheat on assignments
- While ChatGPT can be a helpful tool, its use in cheating raises ethical concerns on whether ChatGPT is fair use when it comes to school work



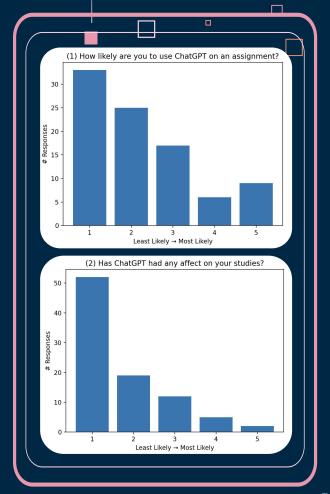
Methodology

- To collect data from students to gain their insights on whether ChatGPT is fair use in academia or not was conducted through surveys:
 - <u>Survey method</u>: This study used a survey, an efficient method for gathering large amounts of data quickly
 - Scope of questions: The survey focused on ChatGPT's academic use and students' opinions, providing insight into usage and perception
 - <u>Effectiveness</u>: A survey was an effective method for gathering information on ChatGPT in academia, allowing for efficient data collection and standardized comparisons

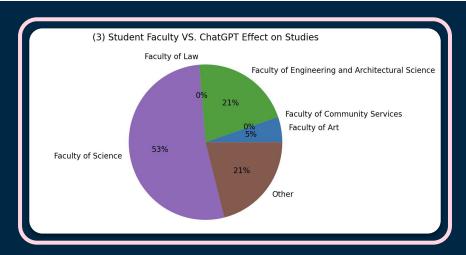


General Findings

- Approximately 36% of participants are willing to use
 ChatGPT for academic purposes (Figure 5 in slide 8)
- About 35% of respondents lack interest in using
 ChatGPT in their academic work (Figure 1)
- Around 52% claimed that ChatGPT had not impacted their studies in any noticeable way (Figure 2).
- ChatGPT has the potential to influence a student's academic work, considering the level of interest and popularity it has collected so far



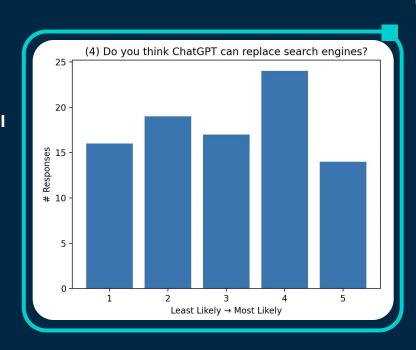
ChatGPT's Effect on Students



- The impact of ChatGPT seems to be associated with its effect on students and their faculties
- Students enrolled in technology-related programs have experienced improvements in their academic performance with the assistance of ChatGPT (Figure 3)
- Conversely, students in non-technical disciplines reported minimal to no effects on their academic outcomes attributed to ChatGPT

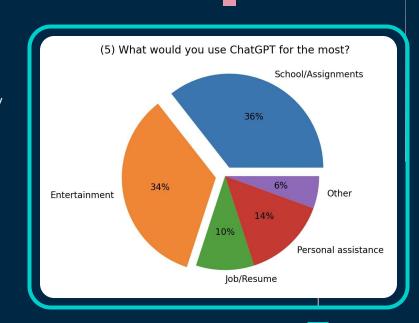
ChatGPT VS. Search Engines

- Figure 4 shows that students are somewhat doubtful of ChatGPT compared to Google or Bing
- Despite this doubtfulness, the majority of students still
 view ChatGPT as a viable alternative
- ChatGPT may require time to gain wider acceptance as people become more familiar with its features and functions
- Overall, ChatGPT holds potential as an alternative to traditional search engines in academic settings



ChatGPT's Public Adoption

- ChatGPT's current usage is primarily limited to academic
 work and leisure activities (Figure 5)
 - Its mainstream popularity is still limited, and its adoption by the general population is ongoing
- Despite this, there is potential for ChatGPT to experience a
- surge in popularity and become a prominent search engine for the general public in the future
- It remains to be seen how ChatGPT's development will progress and whether it will become widely accepted as a search engine for general use



Improving The Survey



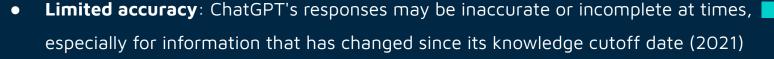
- Surveys are subject to potential sources of bias, such as respondent errors and sampling errors
- These factors may impact the accuracy and reliability of the data collected
- To gain a more comprehensive understanding of ChatGPT's impact on academia, it is recommended to survey a broader demographic
- A diverse cohort of students across various programs and schools would provide more precise and reliable results

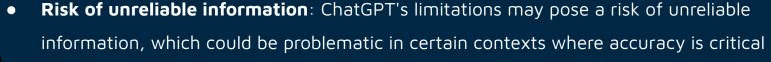
Benefits

- Quick access to information: ChatGPT provides fast and easy answers to students' questions, saving them time and effort in obtaining information on a wide range of topics
- Customized responses: ChatGPT can learn from prior conversations and tailor its responses to individual needs, providing more personalized and accurate answers.
- Enhanced efficiency: ChatGPT can automate routine tasks like grading, providing feedback, and answering common student questions, freeing up time for teachers and students to focus on other tasks
- Improved learning outcomes: ChatGPT's personalized and efficient responses can lead to better understanding of course materials, resulting in improved academic
 performance and learning outcomes



Limitations



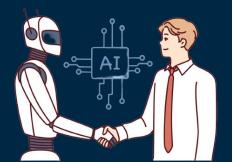


- **Technical limitations**: ChatGPT may have technical limitations, such as its inability to process multimedia content like images and videos, which may limit its usefulness in certain contexts
- Lack of human interaction: ChatGPT's lack of human interaction may limit its ability to understand context and provide reliable responses to complex questions



Future Potential

- ChatGPT has great potential for individualized learning, offering detailed explanations, comments, and resources to support each student's unique requirements
- ChatGPT could function as a virtual tutor, providing in-depth assistance to students outside of the classroom
- The cost-effective nature of ChatGPT makes it an attractive option for students who may not be able to afford traditional tutoring
- ChatGPT can also be utilized as a language learning tool, allowing students to practice their language skills through interactive exercises and chats in multiple languages



Conclusion

- ChatGPT is a valuable educational resource with quick responses and the ability to recall previous conversations
- Based on the data that was collected, ChatGPT has a positive impact on academic performance, especially for those in technology-related fields, according to survey results
- ChatGPT may evolve into a virtual tutor with more detailed responses and be utilized as a language learning tool for international students as technology advances
- It's important to recognize that ChatGPT is a supplement to traditional classroom settings and does not replace the role of teachers or the social and emotional learning opportunities they provide



• End of Presentation