

ChatGPT In Academia

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What Is ChatGPT?

- Created by the AI research institute OpenAI, ChatGPT (short for Chat Generative Pre-Trained Transformer) is an AI chatbot that enables users to chat with the AI to mimic human interaction.
- The uses of ChatGPT can vary wildly, from explaining topics to even translating different languages
- The popularity of ChatGPT has exploded due to its clear and detailed responses to a wide range of prompts
- The existence of this software has sparked controversy with its use in academics as a tool to create essays for students creating a huge debate of its use within academic circles



What Are The Benefits/Harms Of ChatGPT?

Benefits

- Can help troubleshoot programs
- Can help explain subjects to those who don't understand
- Can help in the completion of difficult tasks
- Displays the development of AI technologies as a whole

Harms

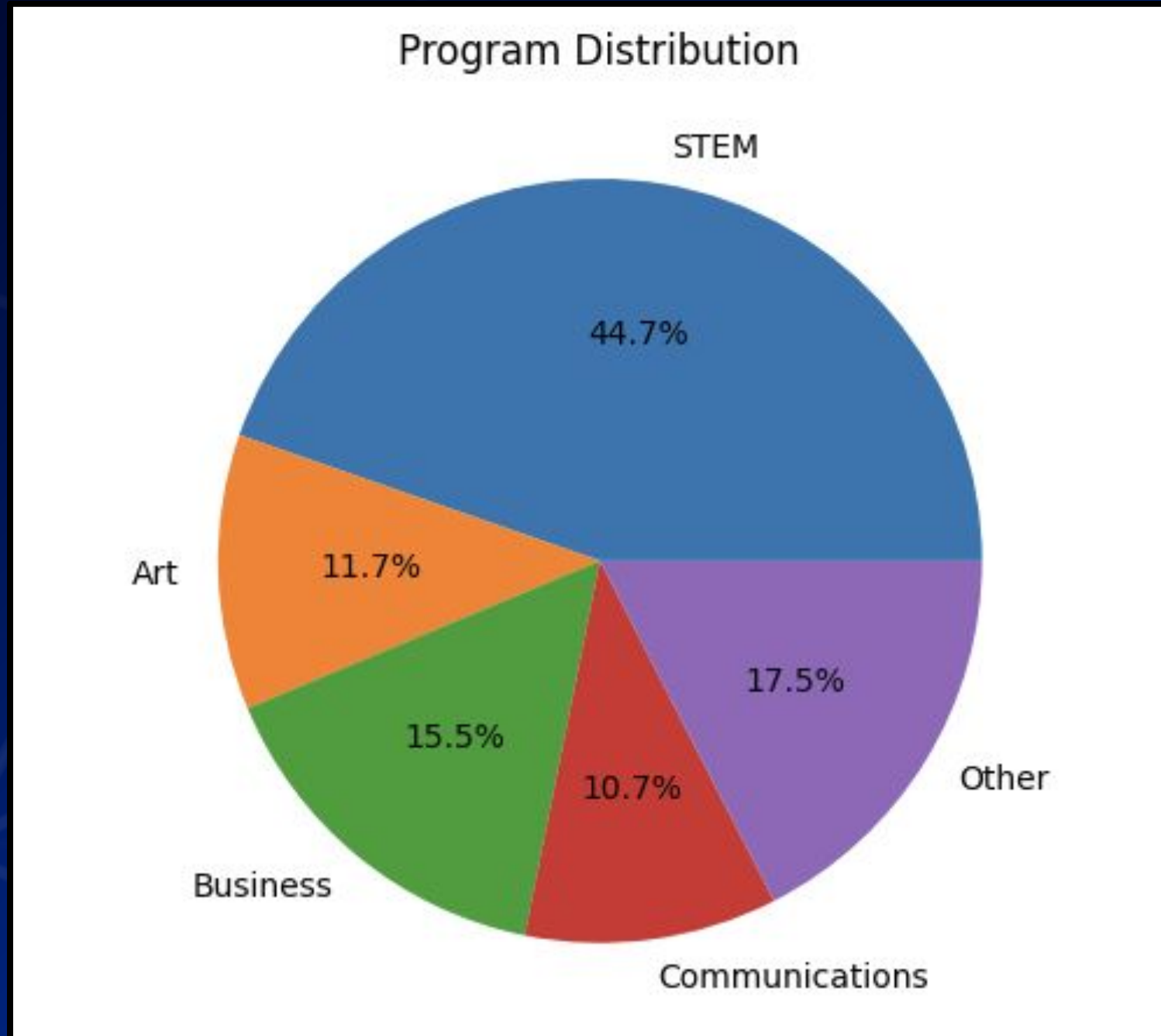
- Can cause people to become overly-dependant on the use of it
- Can be used to violate academic integrity (plagiarize essays or assignments)
- Can display incorrect information
- Can produce biased/discriminatory results

Our Research- What Did We Do?

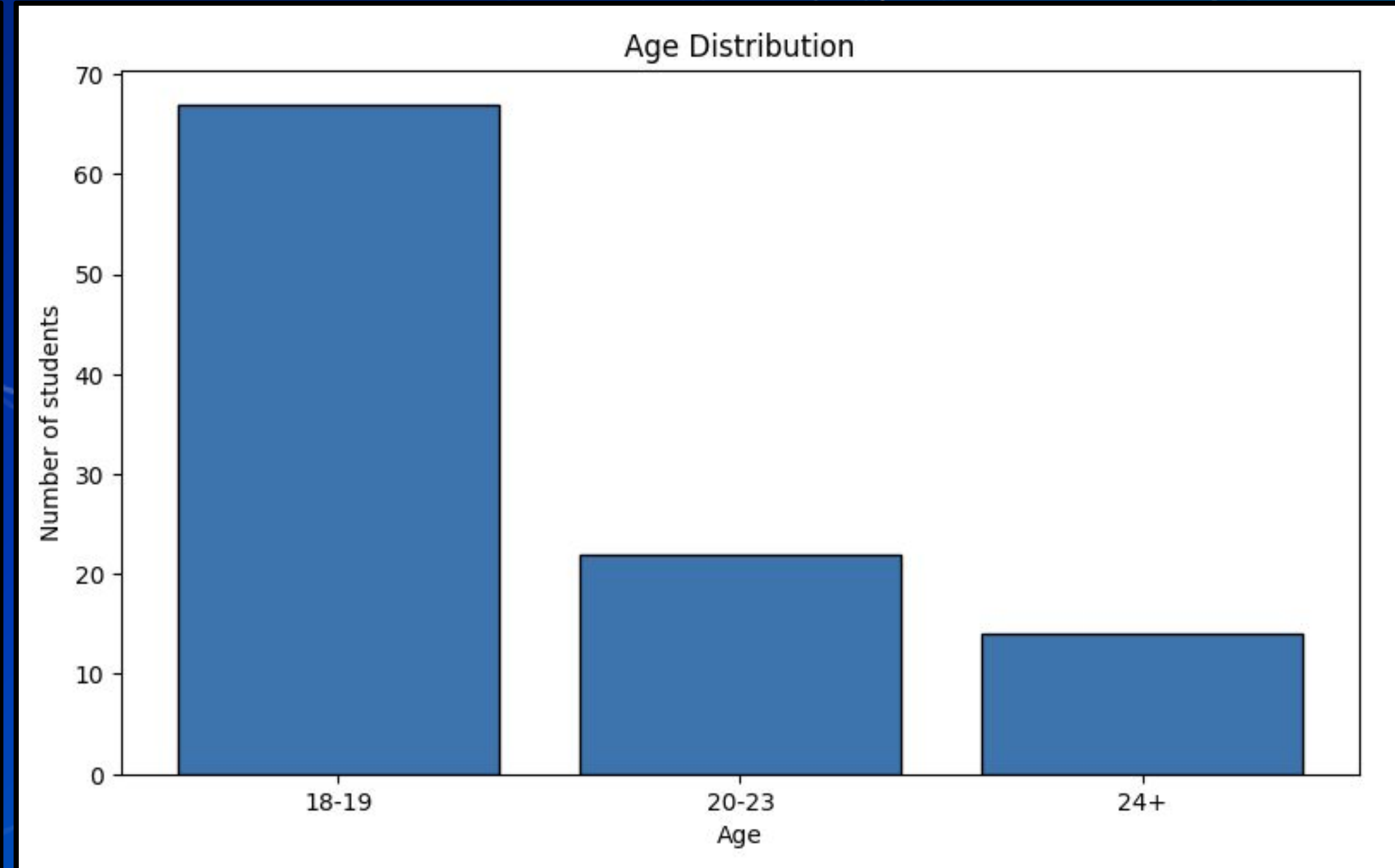
- For our research, we created a survey in an attempt to see what people in academia thought about ChatGPT and its purpose in academics
- We've surveyed people of many different ages, lifestyles, backgrounds and programs to get as wide a perspective as we possibly can
- We've received over 100 submissions of our survey, making for a decent sample size



Findings from the data collected



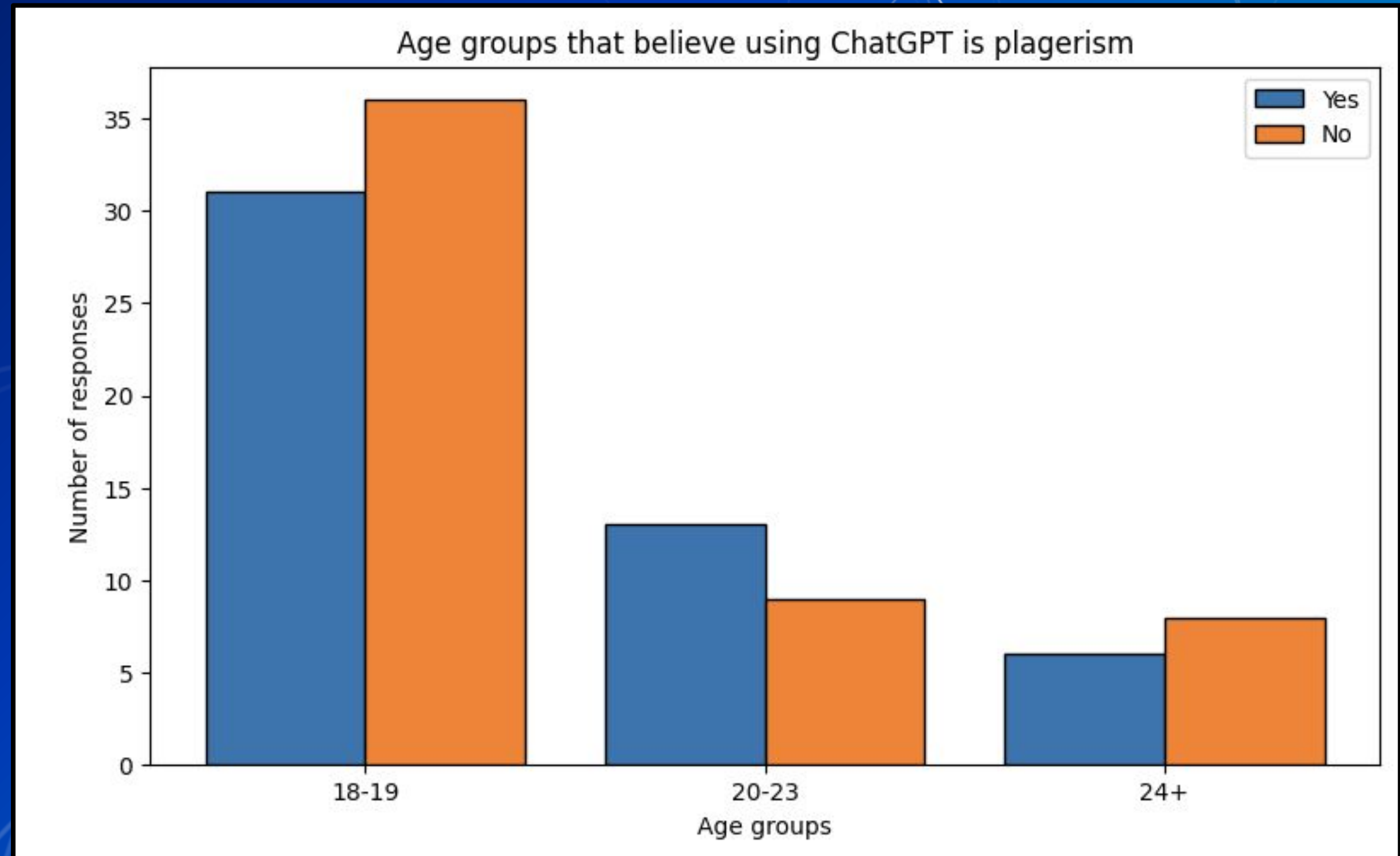
- Primarily comprised of Stem majors with a variety of others



- Primarily comprised of students in the age range of 18-19, with 20-23 trailing, and in last 24+

Findings from the data collected

- Majority of the participants in the age range of 18-19 and 24+ believe using ChatGPT is not a form of plagiarism (Figure 3)
- Majority of the participants within the age range of 20-23 believed using ChatGPT is a form of plagiarism (Figure 3)



■ Figure 3

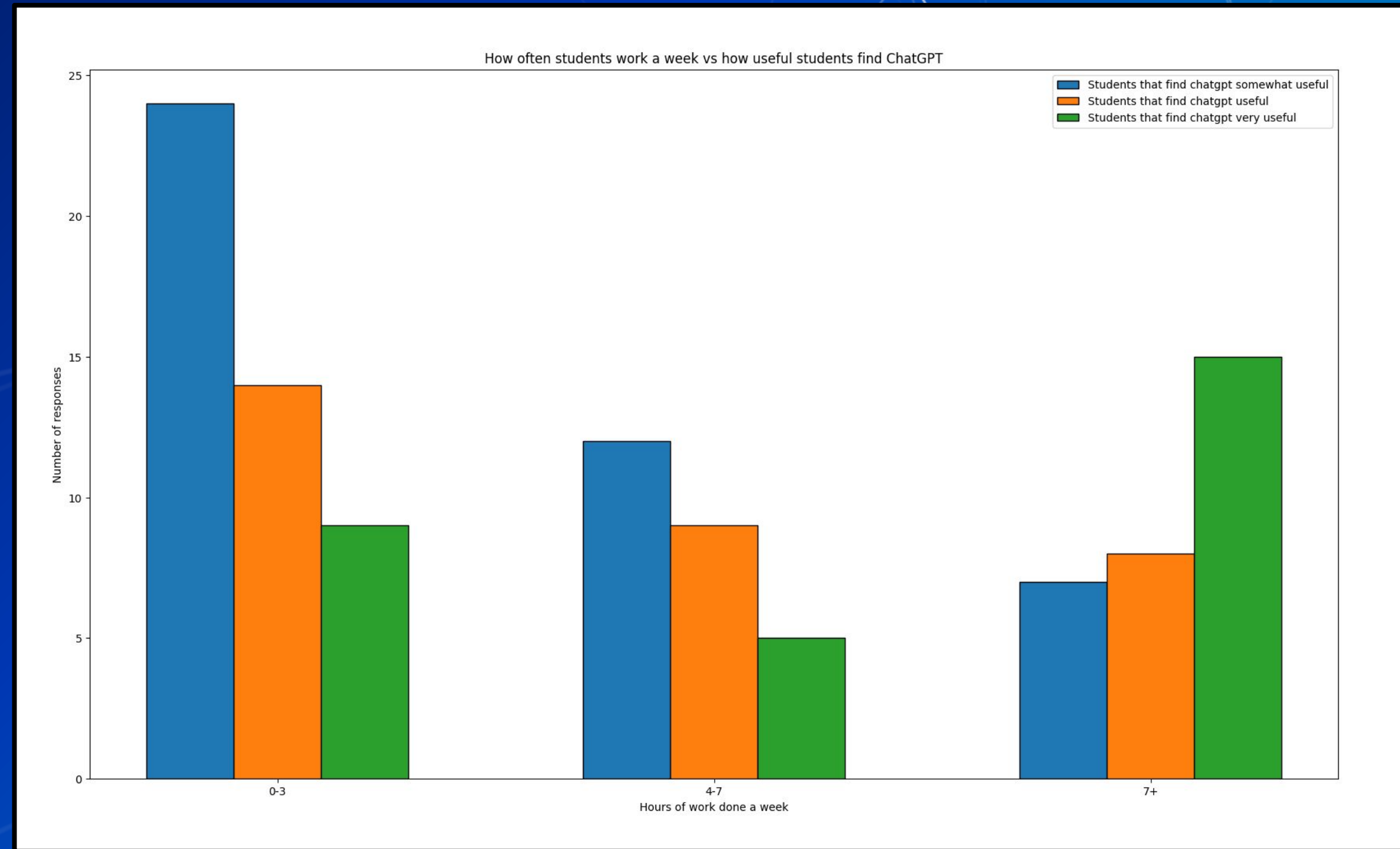
Findings from the data collected

- Participants in the range of 0-3 to 4-7 hrs of work done a week both have identical shaped graphs

- ❑ Majority concluding it is only somewhat useful (figure 4)
- ❑ The next most chosen response, found chatgpt useful (figure 4)
- ❑ With the minority finding chatgpt to be very useful (figure 4)

- Participants in the range of 7+ hours of work done a week found that:

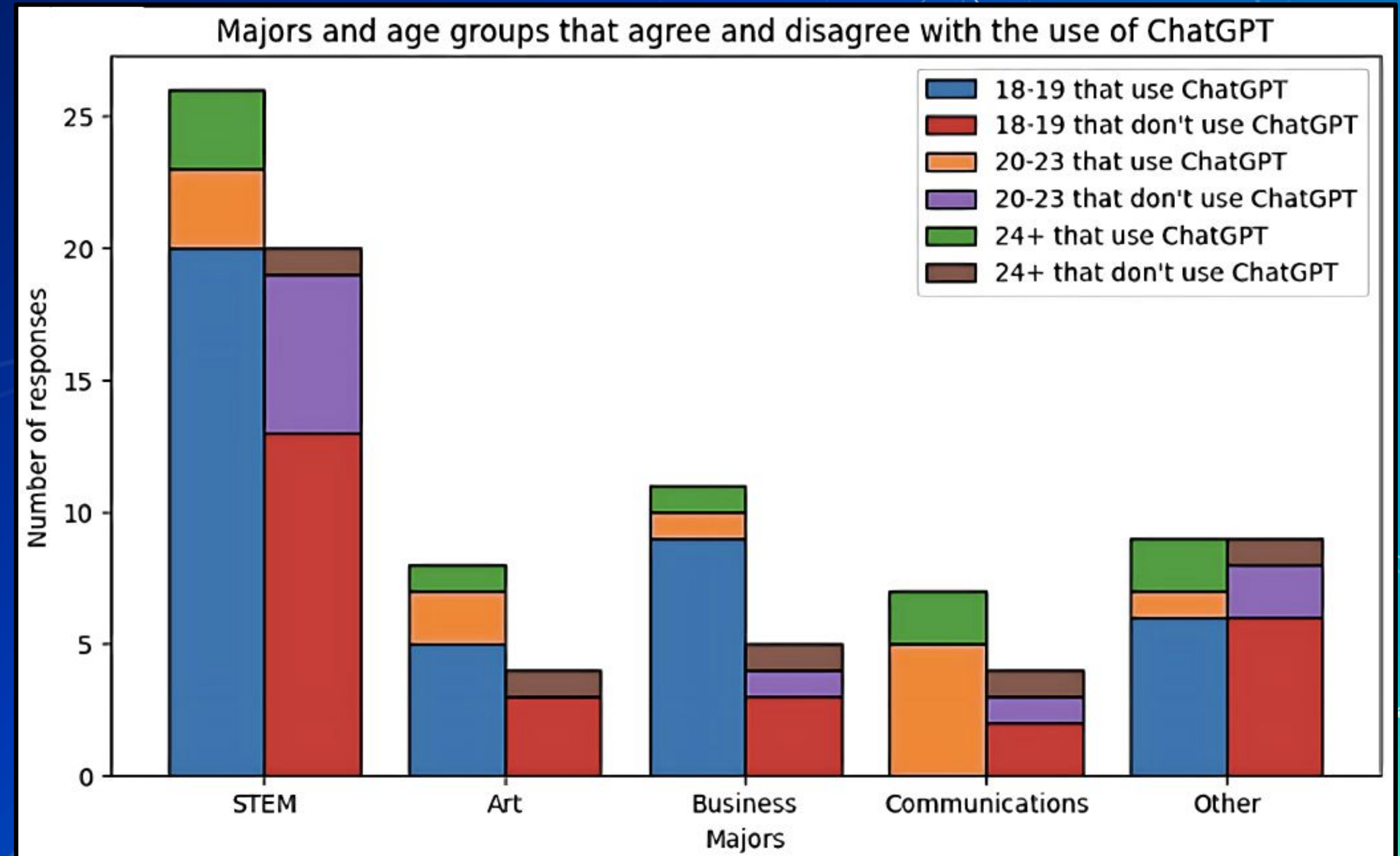
- ❑ Chatgpt was mostly found very useful (figure 4)
- ❑ Second most chosen finding it to be useful (figure 4)
- ❑ With the minority finding it do be only somewhat useful (figure 4)



■ Figure 4

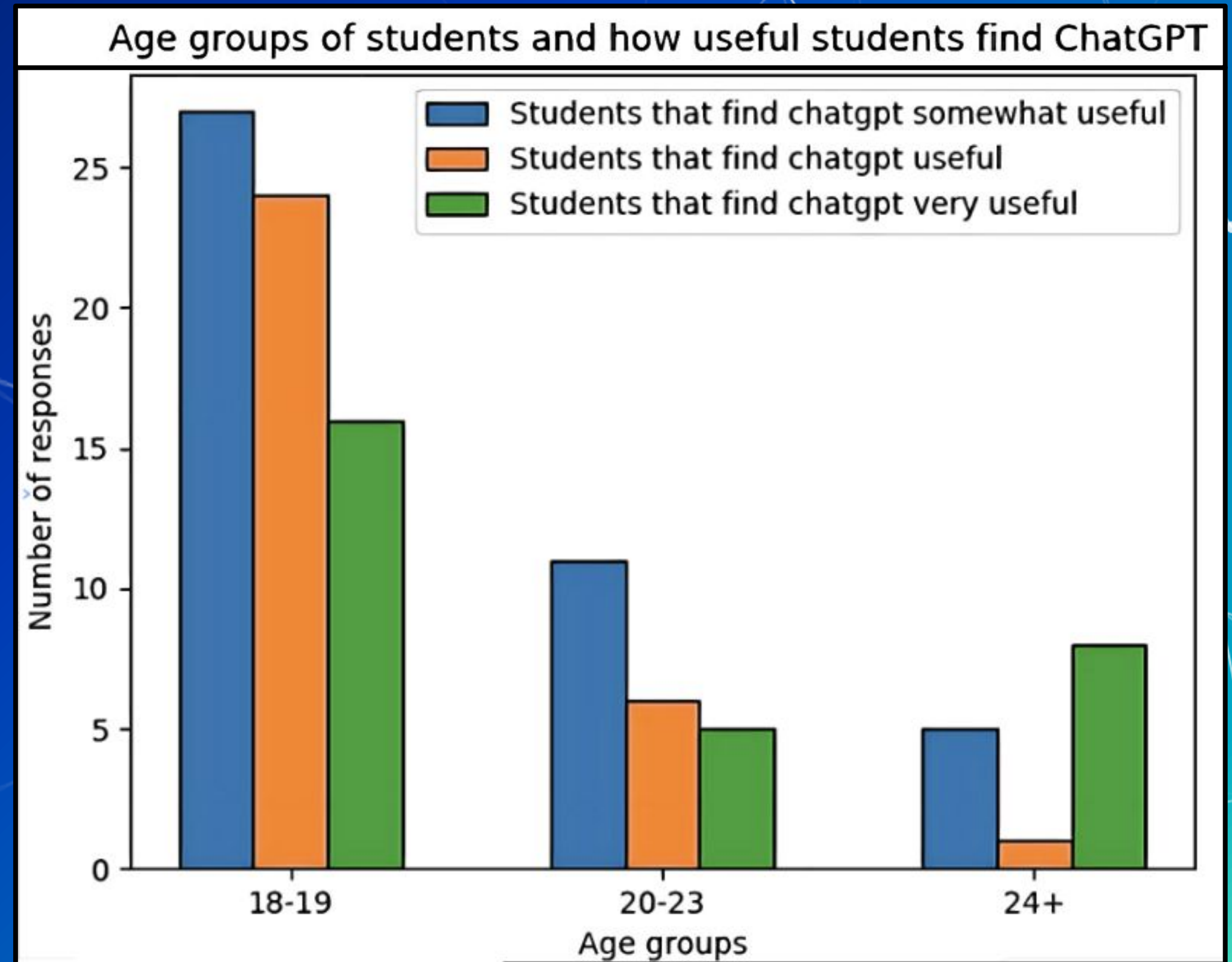
Findings from the data collected

- The majors that predominantly agree with the usage of ChatGPT:
 - ❑ STEM
 - ❑ Art
 - ❑ Business
 - ❑ Communications
- “Other” majors are split with a tie
- No major directly disagrees with the usage of ChatGPT



Findings from the data collected

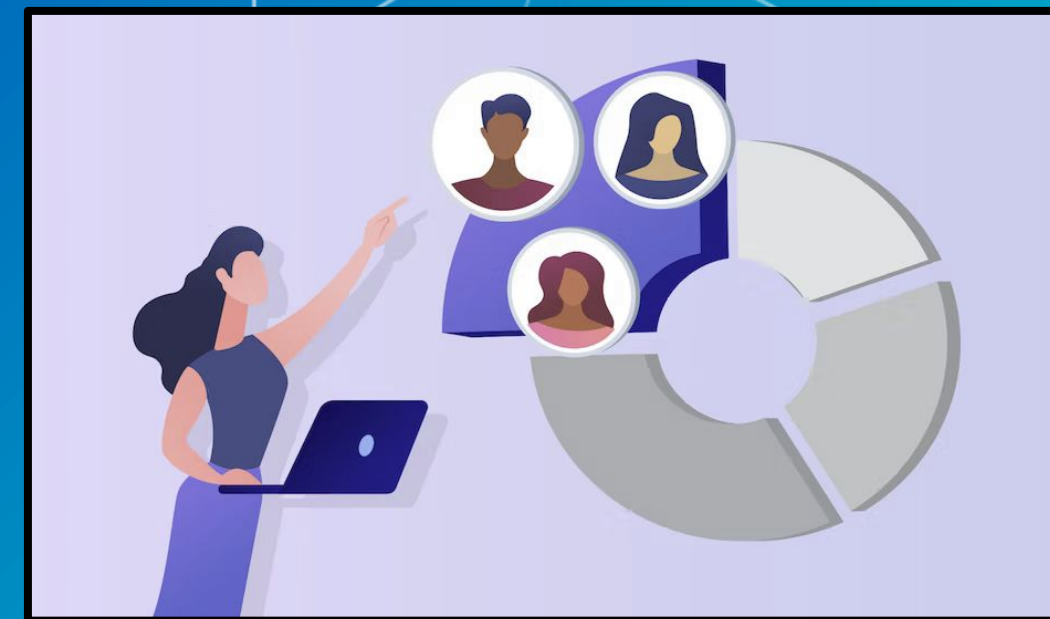
- Participants in the age groups (18-19) and (20-23) both predominantly found that the usage of ChatGPT was only somewhat useful
- Participants in the age group of 24+ predominantly found that the usage of ChatGPT was very useful
- Students in the age groups (18-19) and (20-23) both found ChatGPT to not be very useful, with the least votes



■ Figure 5

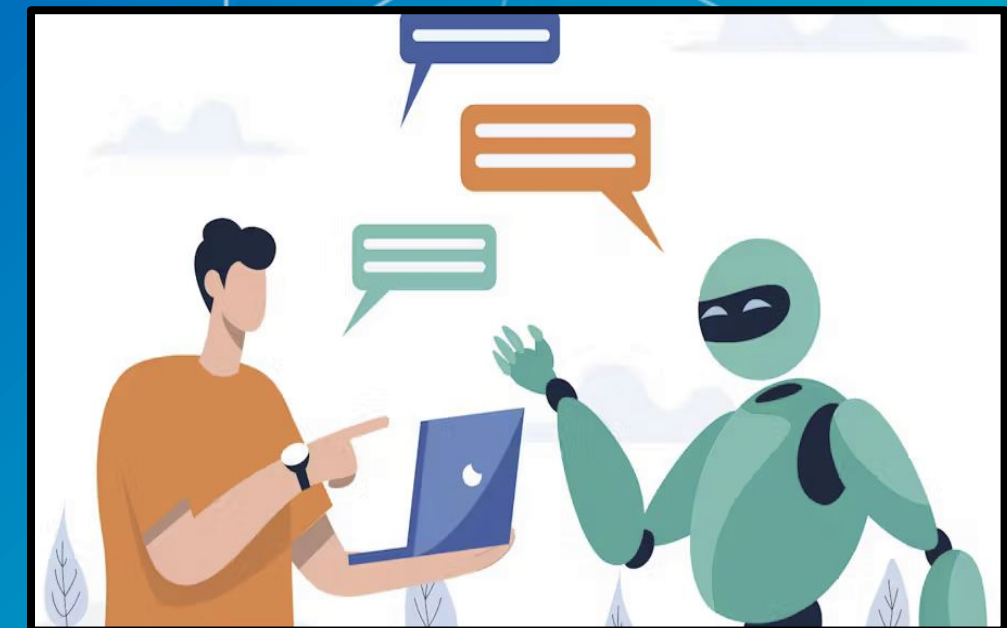
Where Could We Have Improved?

- Although we were able to provide significant results on students' overall views of ChatGPT, there are areas in which we could have improved, such as:
 - Our sample size
 - ❑ It should have been larger
 - ❑ We could have done more to spread our survey out for people to do
 - Our survey's target audience
 - ❑ It was targeting students when we should have included other people in academia like professors
 - Detail of questioning
 - ❑ Our questions should have been more detailed to extract better information from our surveyees



What Is The Future Of ChatGPT?

- ChatGPT has already demonstrated itself to be a powerful tool in education at its current form
- Its potential to shape the future of education grows as it continues to receive more updates and improvements
- With these updates, ChatGPT will improve in its ability to comprehend and react to unique questions given to it
- ChatGPT can help aid in a students understanding of certain subjects, as well as aid in teachers streamlining their routines, giving them more time to better engage with their students
- It's a definite possibility that there will be a great benefit to using ChatGPT in a classroom setting as an educational tool as it continues to evolve and improve



Conclusion

- In conclusion, the use of ChatGPT in academia is a very complex subject to tackle
- ChatGPT has the potential to be of great service to the academic community with its ease of use and accessibility, making it a useful tool for students to help fortify their understanding of subjects
- However, its use does pose a great threat to academic integrity as a whole, as many use it to plagiarize and cheat (with the possibility of inaccuracies) instead of doing their own work, undermining the entire purpose of education
- Its use can also make students highly dependent on it
- As ChatGPT continues to evolve and grow, the academic community will have to adapt to its growing presence in the world
- With strong regulations though, it could serve to be an amazing tool to benefit many within academic circles, from students to teachers

