ChatGPT in — Academia

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INTRODUCTION

- What is ChatGPT:
 - Created by OpenAI on November 30, 2022 (OpenAI, n.d.; Ash, 2023)
 - Self learning Al
 - Utilizes a method called,
 "Reinforcement Learning from Human Feedback" (OpenAl, n.d.)
 - Learns from corrections provided to responses generated by ChatGPT (OpenAl, n.d.)



INTRODUCTION

- Those in academia now have access to a powerful Al tool to complete:
 - Labs, assignments, problem sets and many other types of academic work.

 Raises questions of academic integrity among educators and educational institutions



WE CONDUCTED A SURVEY

WHAT WE DID FOR OUR SURVEY

- Asked individuals in academia questions about themselves and questions about their view of ChatGPT
- Survey accumulated over 100 responses
- Method used to spread the survey around was in person and online networking



OUR DATA AND OUTCOMES



- Faculties that require more writing and opinion based analysis haven't used ChatGPT
 - Faculty of Arts, Health Sciences, Law, and Business
- Faculties that require calculations and fact based analysis have used ChatGPT
 - Faculty of Science and Engineering

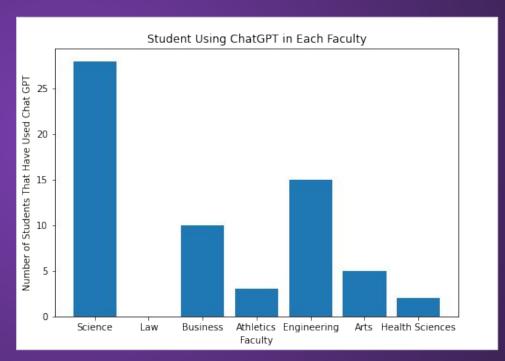


Figure 1: Graph of academia individuals who have used ChatGPT in their Faculty.

- The higher the GPA of the individual, the more likely they are to think that the use of ChatGPT will increase their current GPA
- Indicator of higher GPA using ChatGPT to their benefit

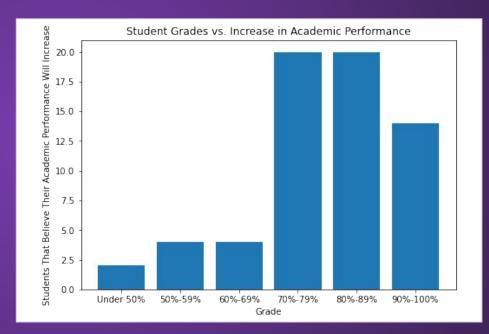
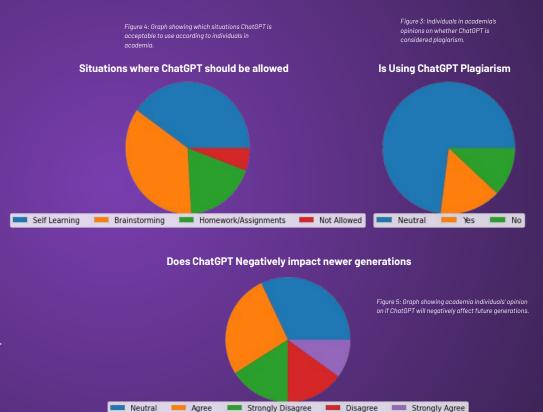


Figure 2: Graph of academia individuals' GPA compared to their opinions on ChatGPT increasing their overall academic performance.

- Figure 3 shows most individuals agree ChatGPT is plagiarism based on context
- Figure 4 shows which situations it's acceptable to use ChatGPT
 - Majority of people agree to use ChatGPT for learning and generating ideas
- Figure 5 shows the majority
 of the votes believe ChatGPT
 will negatively impact future
 generations



- Figure 6 shows those involved in academia strongly believe ChatGPT provides accurate information
- Despite OpenAl claiming
 ChatGPT occasionally provides
 inaccurate information

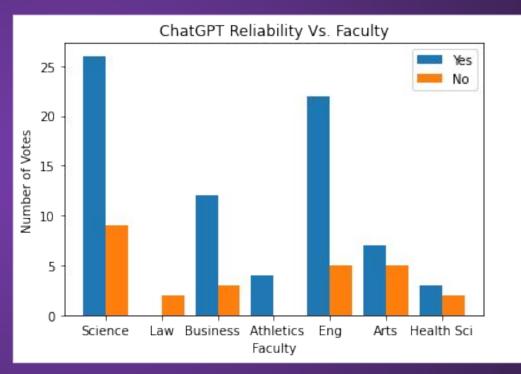


Figure 6: Graph showing individuals in academia in various faculties about ChatGPT's reliability.

IMPROVEMENTS TO THE CENSUS PROCESS

Challenges & Setbacks

- Demographic was primarily made up of individuals in engineering and science
- Data was skewed in support of ChatGPT due to demographic bias
- Generalization of questions on the census resulted in clusters of data that were too similar

Improvements

Reach wider & more diverse demographic

 Posting survey information on posters across campus bulletin boards

Create questions that are more comprehensive

 Would allow for less clustered data and more outcomes to be drawn from the data

Conclusion

- Data collection and census procedure for this project ran smoothly
- Improvements will generate more diverse & informative data and draw better conclusions

DISCUSSING THE FUTURE IMPACT

 Development of ChatGPT resulted in greater learning assistance

 Availability and ease of use of the chatbot has educators and institutions questioning its future in education

 Many believe that ChatGPT will change and impact the future of education in a positive way

```
CREATE TABLE users (
    id SERIAL PRIMARY KEY.
    name VARCHAR(50) NOT NULL,
INSERT INTO users (name, email, password) VALUES ('John Smith', 'john@example.co
```

WHAT THE FACULTY AT UNIVERSITY OF ROCHESTER HAD TO SAY



Deborah Rossen-Knill

Director of Rochester's Writing, Speaking, and Argument Program

"ChatGPT and other generative Al can help students learn things that aren't always easy to teach."

She also contends that "It's amazing to have this technology do in seconds what it takes many of us hours to do, "

(Mandelaro, 2023).



Jonathan Herington

Assistant professor in the Department of Philosophy

Jonathan Herington utilized
ChatGPT as a part of his
assignment where he asked
students to co write an essay with
the chatbot,
(Mandelaro, 2023).



Adam Purtee

Assistant professor of computer science

After returning to in-class quizzes he says "I want the student to know this information. The best way to do that is to get them alone in a room with a pencil and see what happens." Incorporating the weaknesses of ChatGPT, (Mandelaro, 2023).

