



# THE USE OF CHATGPT TOWARDS EDUCATION

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#GROUP: 60

# WHAT IS CHATGPT

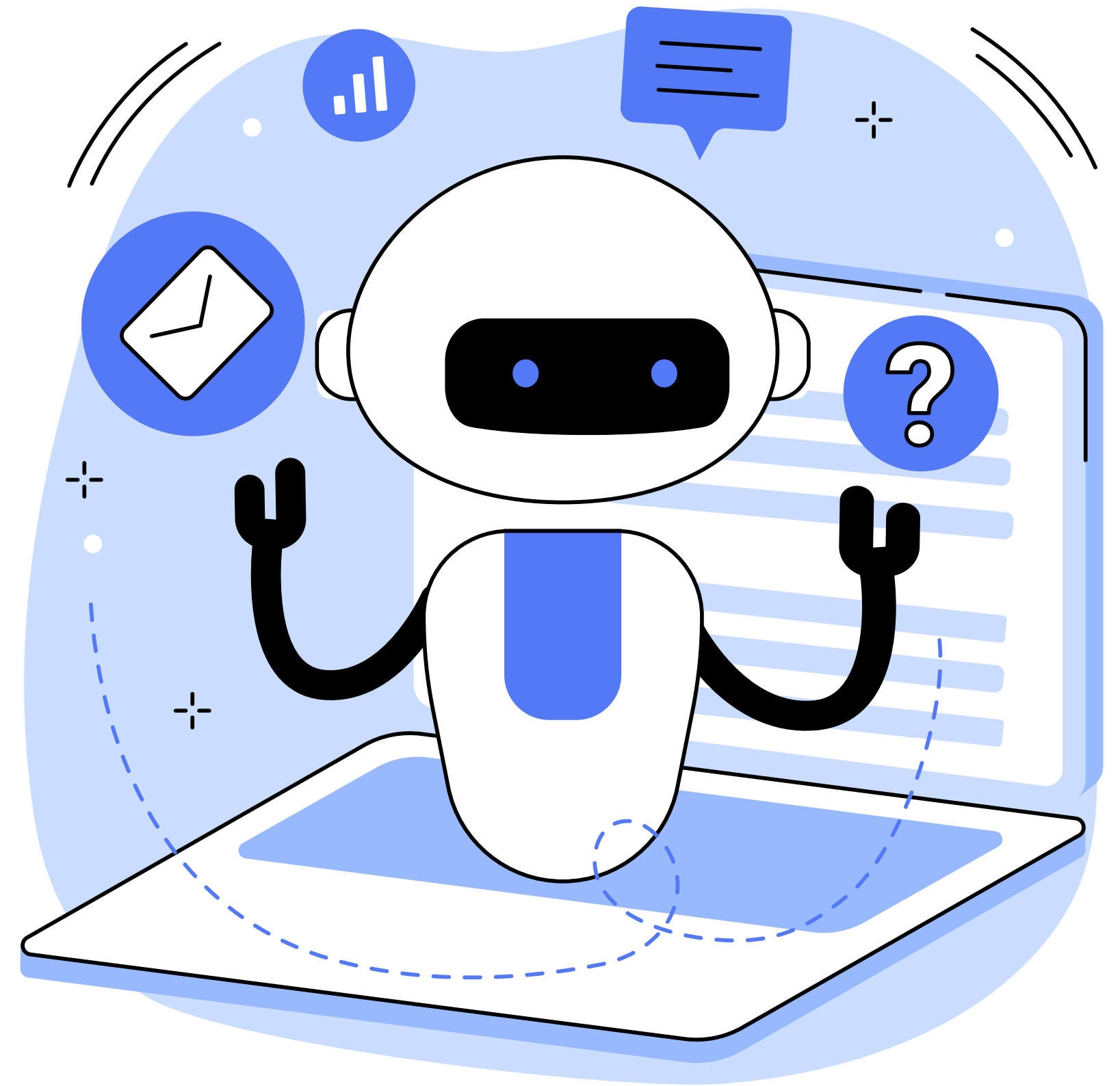


CHATGPT IS AN AI TECHNOLOGY DEVELOPED BY OPENAI THAT USES NATURAL LANGUAGE PROCESSING TO GENERATE HUMAN-LIKE RESPONSES TO QUESTIONS. IT WAS LAUNCHED IN 2022 AND ATTRACTED 5 MILLION USERS WITHIN THE FIRST 5 DAYS OF ITS LAUNCH. CHATGPT IS DIALOGUE-OPTIMIZED, USING REINFORCEMENT LEARNING WITH HUMAN FEEDBACK (RLHF) TO TRAIN THE MODEL TOWARDS DESIRED BEHAVIOR USING HUMAN EXAMPLES AND FEEDBACK. IT IS CONSIDERED ONE OF THE BEST AI CHATBOTS IN THE TECHNOLOGY INDUSTRY.

CHATGPT POSES SEVERAL CONCERNS FOR SCHOOLS, PARTICULARLY AROUND ITS POTENTIAL FOR MISUSE BY STUDENTS:

- THE CHATBOT'S ABILITY TO PROVIDE ACCURATE RESPONSES TO A WIDE RANGE OF QUESTIONS RAISES CONCERNS ABOUT CHEATING ON ASSIGNMENTS AND EXAMS.
- AS AN AI TECHNOLOGY, CHATGPT IS NOT ALWAYS ABLE TO DISTINGUISH BETWEEN FACT AND FICTION, WHICH COULD RESULT IN THE SPREAD OF FALSE OR MISLEADING INFORMATION AMONG STUDENTS.
- THE USE OF CHATGPT IN CLASSROOMS COULD REPLACE HUMAN INTERACTION AND PERSONALIZED LEARNING EXPERIENCES, WHICH ARE CRITICAL TO STUDENT SUCCESS AND DEVELOPMENT.

# PURPOSE OF THE RESEARCH



# RESPONDENTS: 104 INDIVIDUALS

48.2% OF FEMALES REPORTED  
USING CHATGPT

82.6% OF FEMALE USERS WERE  
BETWEEN AGES 17-20, 17.8%  
WERE BETWEEN AGES 21-30

24% OF FEMALE USERS WERE IN THE  
BUSINESS FACULTY, AND 64% WERE IN  
THE SCIENCE FACULTY

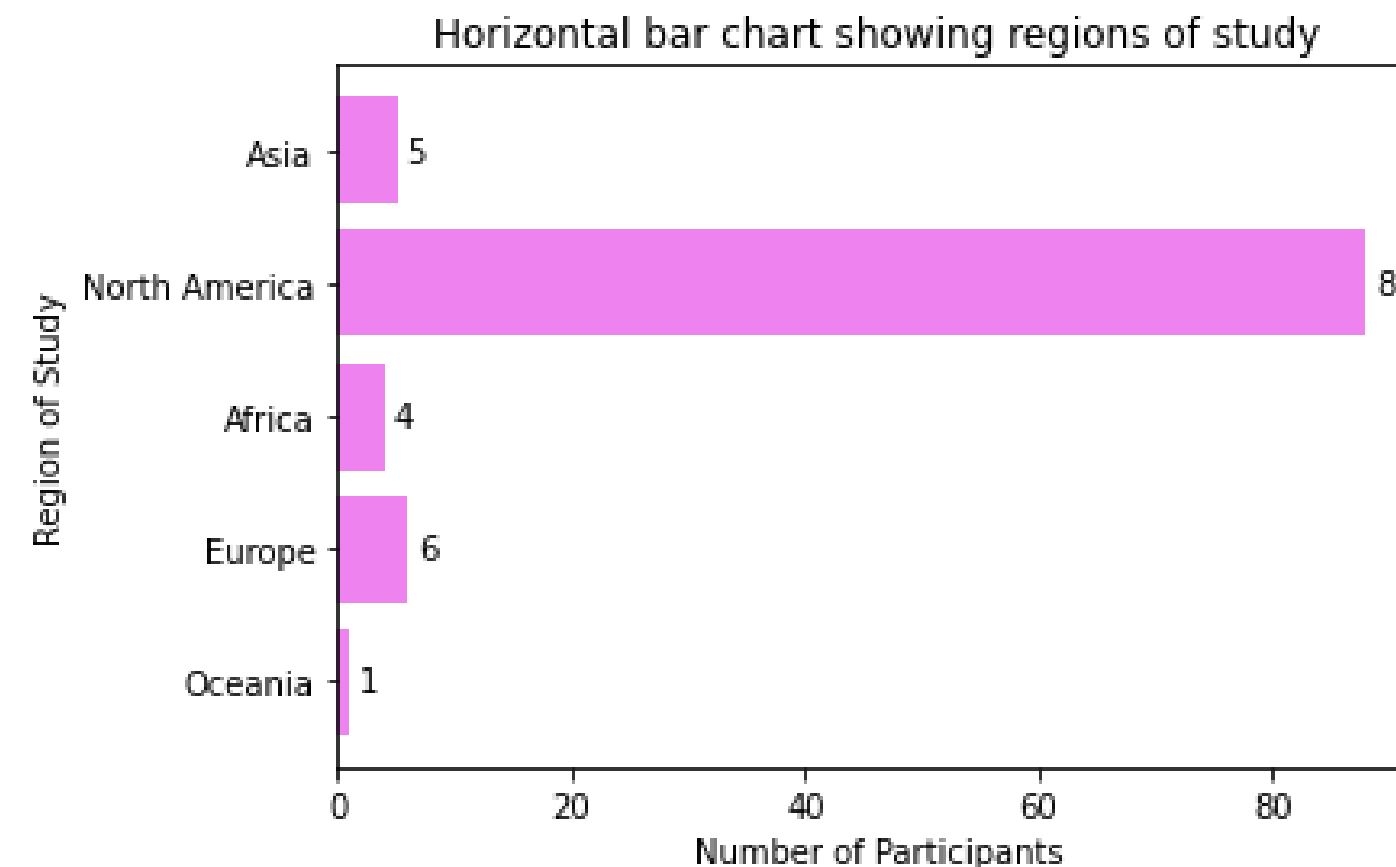
AMONG WOMEN AGED 17-20, 60% REPORTED  
RARELY USING CHATGPT, WHILE ONLY 8%  
REPORTED USING IT OFTEN

51.8% OF MALES REPORTED  
USING CHATGPT

75% OF MALE USERS WERE BETWEEN  
AGES 17-20, AND 20% WERE BETWEEN  
AGES 21-30

27.5% OF MALE USERS WERE IN BUSINESS  
FACULTY, 24% WERE IN THE SCIENCE  
FACULTY, AND 44.8% WERE IN ENGINEERING

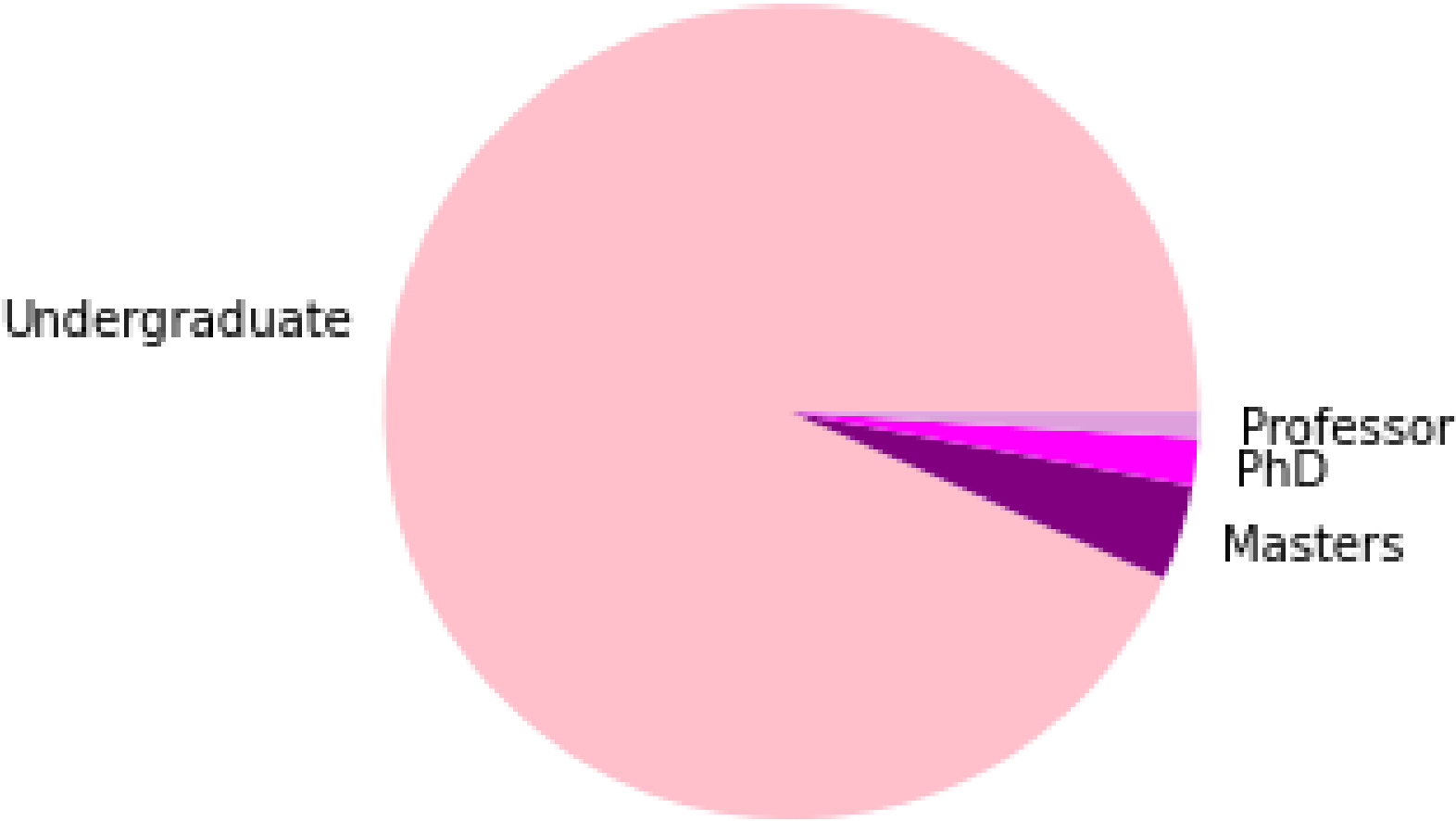
AMONG MEN AGED 17-20, 17.5% REPORTED  
USING CHATGPT OFTEN, WHILE 27.5%  
REPORTED RARELY USING IT



- OUR SURVEY AIMED TO UNDERSTAND THE USE OF CHATGPT IN EDUCATION, AND WE ENSURED THAT THE 104 INDIVIDUALS WHO PARTICIPATED WERE ACADEMIC RESOURCES.
- BY TARGETING INDIVIDUALS WITH A BACKGROUND IN EDUCATION, WE WERE ABLE TO OBTAIN VALUABLE INSIGHTS AND OPINIONS FROM THOSE WHO HAVE A DEEP UNDERSTANDING OF THE CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH USING CHATGPT IN THIS CONTEXT.
- THE ACADEMIC BACKGROUND OF OUR SURVEY PARTICIPANTS PROVIDED A MORE NUANCED ANALYSIS OF THE DATA, AS THE RESPONSES WERE INFORMED BY A SOLID UNDERSTANDING OF THE EDUCATIONAL LANDSCAPE.
- THIS ACADEMIC FOCUS WAS CRITICAL IN ENSURING THAT THE FINDINGS ACCURATELY REFLECTED THE VIEWS AND EXPERIENCES OF THOSE USING CHATGPT IN AN EDUCATIONAL CONTEXT.

UNDERGRADUATE STUDENTS: 93.3%  
MASTERS STUDENTS: 3.8%  
PHD STUDENTS: 1.9%  
PROFESSORS: 1%

Pie Chart showing Academic Roles for ChatGPT survey



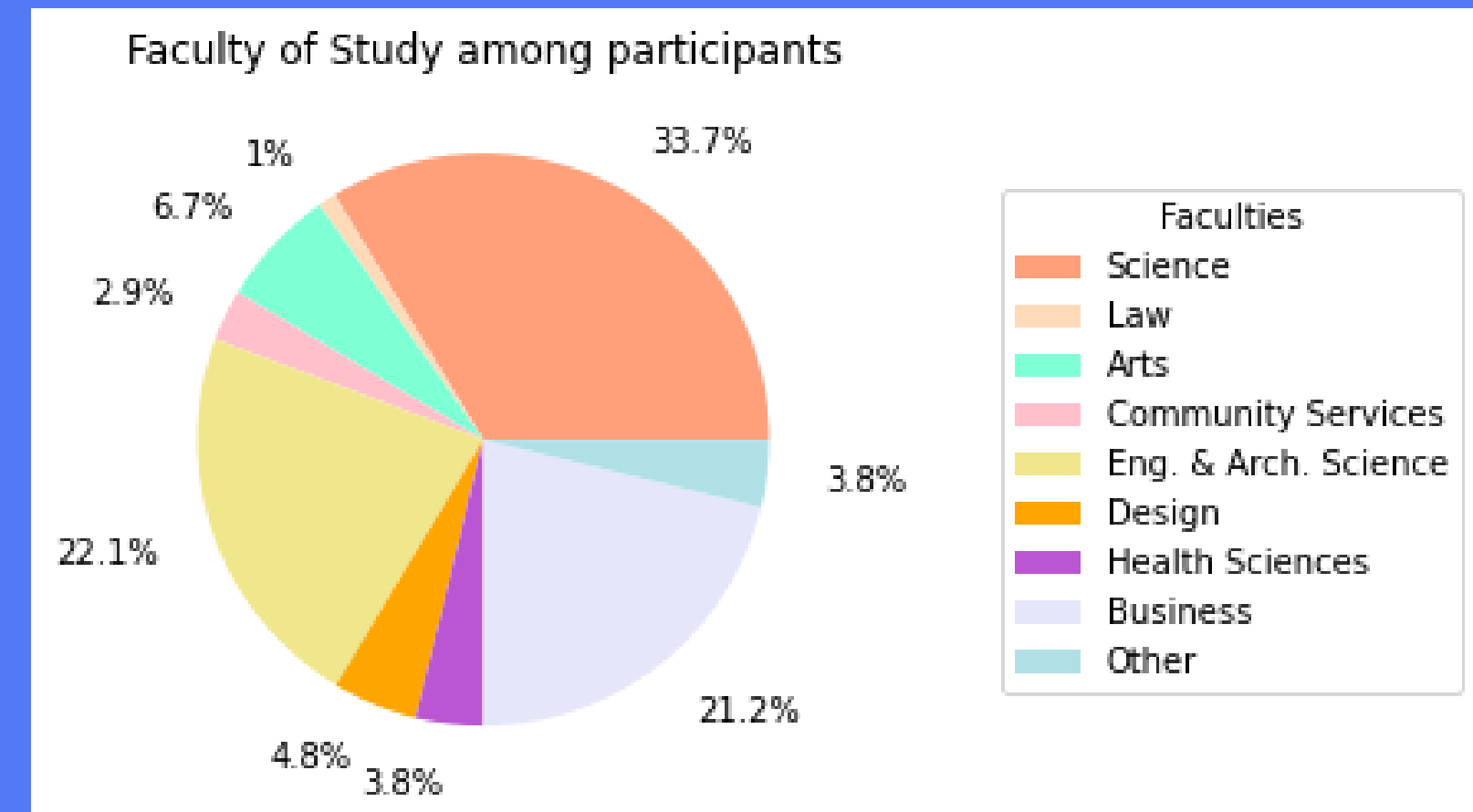
INCLUDING A VARIETY OF STUDENTS FROM DIFFERENT FACULTIES WAS IMPORTANT IN OUR CHATGPT AND EDUCATION SURVEY.

EACH STUDENT MAY USE CHATGPT FOR DIFFERENT PURPOSES BASED ON THEIR AREA OF STUDY.

BY INCLUDING STUDENTS FROM DIVERSE FACULTIES, WE GAINED INSIGHTS ON HOW CHATGPT IS BEING USED ACROSS DIFFERENT DISCIPLINES.

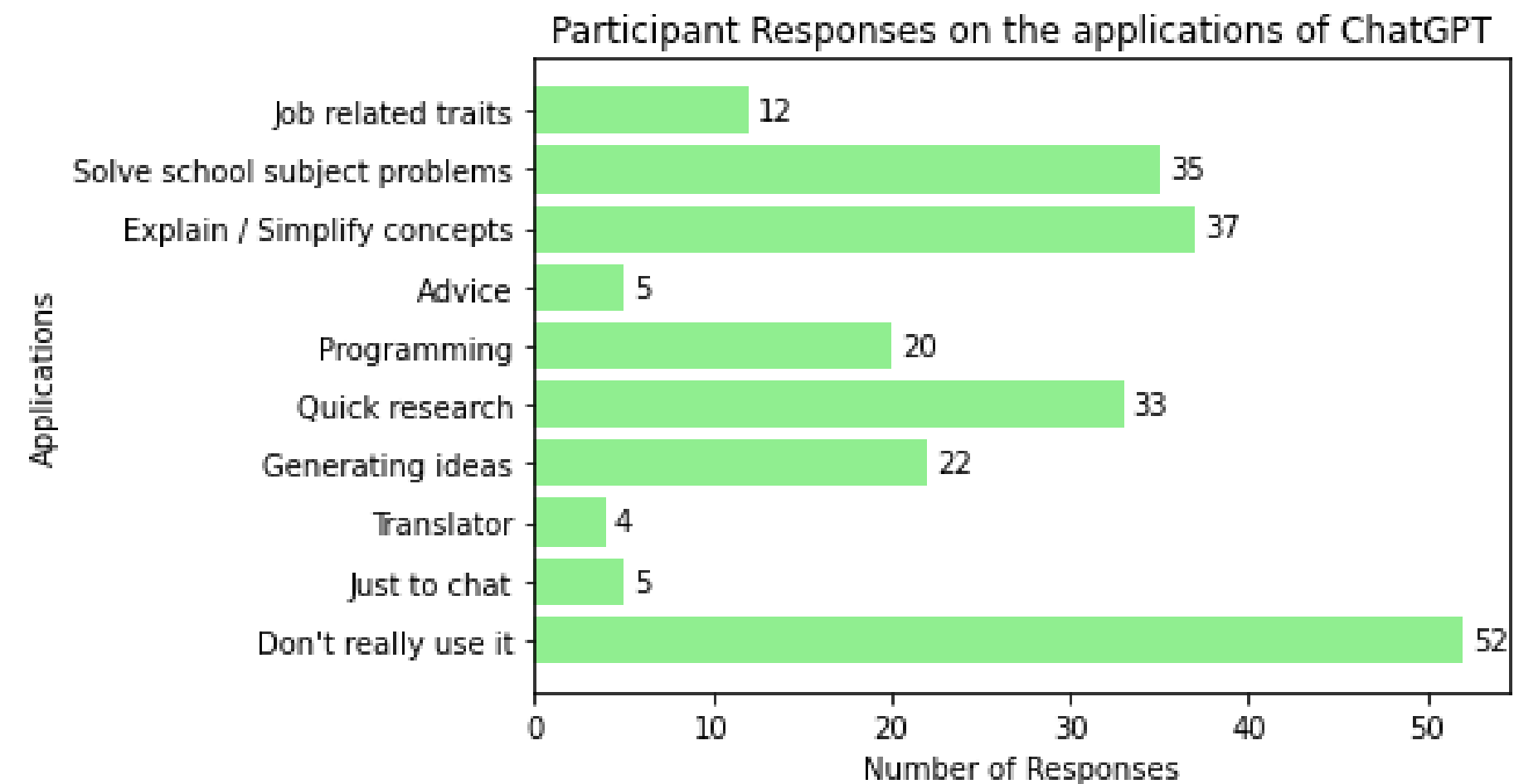
THIS APPROACH ALLOWED US TO UNDERSTAND THE POTENTIAL BENEFITS CHATGPT CAN OFFER TO STUDENTS ACROSS DIFFERENT FIELDS OF STUDY.

A COMPREHENSIVE UNDERSTANDING OF CHATGPT'S POTENTIAL ROLE IN EDUCATION WAS OBTAINED THROUGH EXAMINING A VARIETY OF STUDENTS FROM DIFFERENT FACULTIES.



- MAJORITY USE CHATGPT FOR SIMPLIFYING AND EXPLAINING DIFFICULT CONCEPTS, SOLVING SCHOOL PROBLEMS, AND RESEARCH.
- FEW USE IT FOR TRANSLATION, CASUAL CONVERSATION, OR ADVICE.
- USERS PREFER HUMAN EXPERTISE FOR ADVICE DUE TO BETTER PERCEPTION OF CONTEXTUAL NUANCES.
- BENEFITS INCLUDE QUICK AND EASY USE AND INCREASING EFFICIENCY IN EDUCATION SETTINGS.
- DOWNSIDES ARE PLAGIARISM AND HEAVY DEPENDENCE ON TECHNOLOGY.
- 53.8% OF CHATGPT USERS RARELY USE IT, INDICATING A PREFERENCE FOR OTHER LEARNING TOOLS.
- CHATGPT IS PRIMARILY USED AS A LEARNING AID AND ACADEMIC ASSISTANCE, BUT USERS STILL PRIORITIZE OTHER TOOLS FOR DEVELOPING THEIR ABILITIES AND AVOIDING RELIANCE ON TECHNOLOGY.

# CHATGPT USAGE ANALYSIS



# CHATGPT'S ROLE IN EDUCATION: STUDENT PERSPECTIVES

MAJORITY OF STUDENTS BELIEVE  
CHATGPT SHOULD BE ALLOWED IN  
SCHOOL WITH SOME RESTRICTIONS

OVERALL AVERAGE  
RATING OF CHATGPT'S  
BENEFITS IS THREE  
STARS OUT OF FIVE

SIMPLIFYING COMPLEX  
TEXTS IS A KEY FEATURE  
THAT IS VERY HELPFUL  
FOR STUDENTS

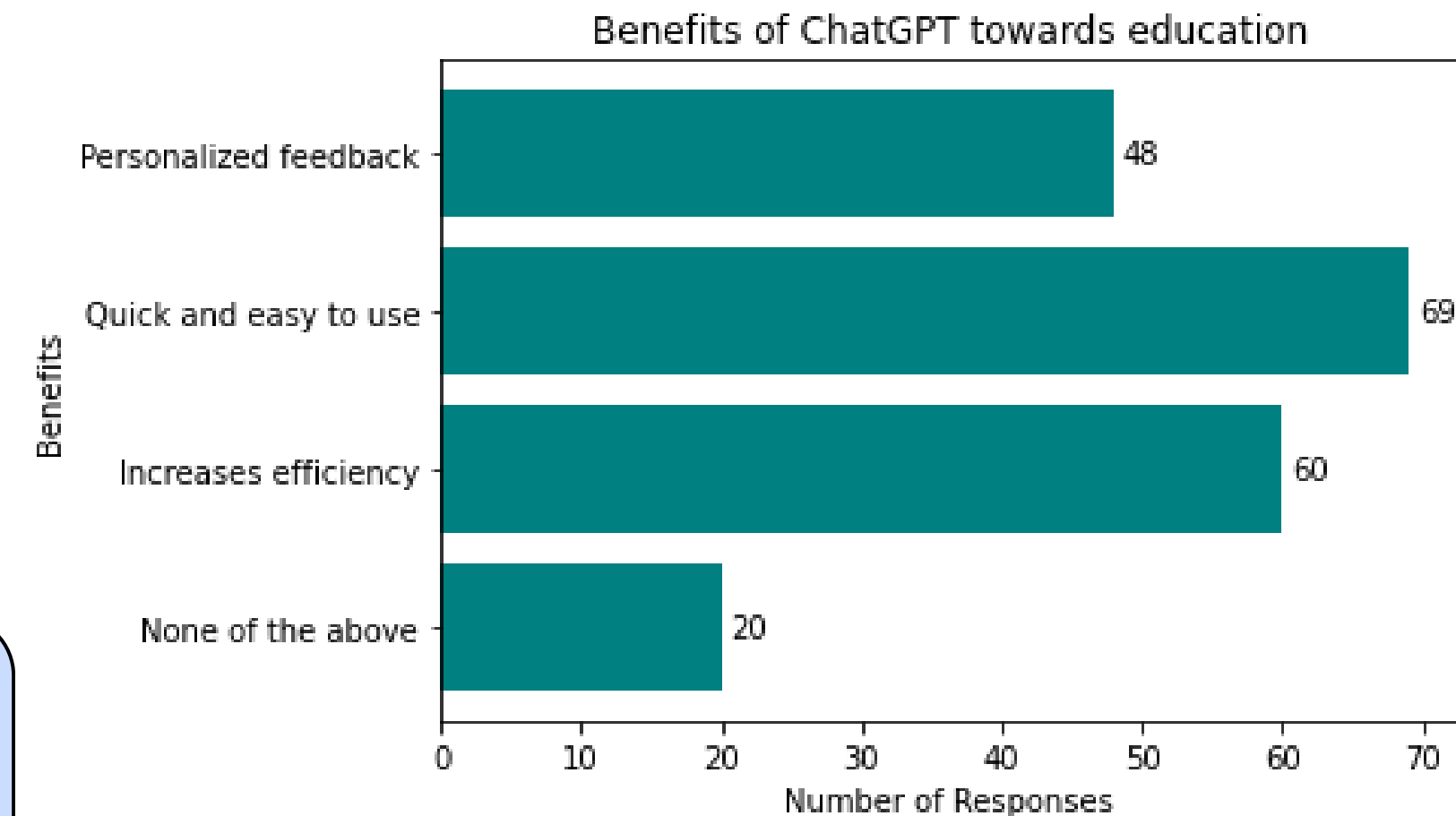
USING CHATGPT TO DO STUDENT WORK IS  
CONSIDERED PLAGIARISM BY 71 OUT OF 104  
STUDENTS

CHATGPT PROVIDES A  
CUSTOMIZED AND DIRECT  
RESPONSE TO PROBLEMS,  
MAKING IT EASY FOR STUDENTS  
TO ACCESS

STUDENTS CAN RECEIVE  
CUSTOMIZED CRITIQUES FOR  
ASSIGNMENTS AND PROJECTS  
BEFORE SUBMISSION

STUDENTS SHOULD USE CHATGPT AS A  
TOOL RATHER THAN A REPLACEMENT FOR  
THEIR OWN WORK.

CHATGPT IS NOT FULLY DEVELOPED AND  
CAN MAKE MISTAKES, ACCORDING TO SOME  
STUDENTS



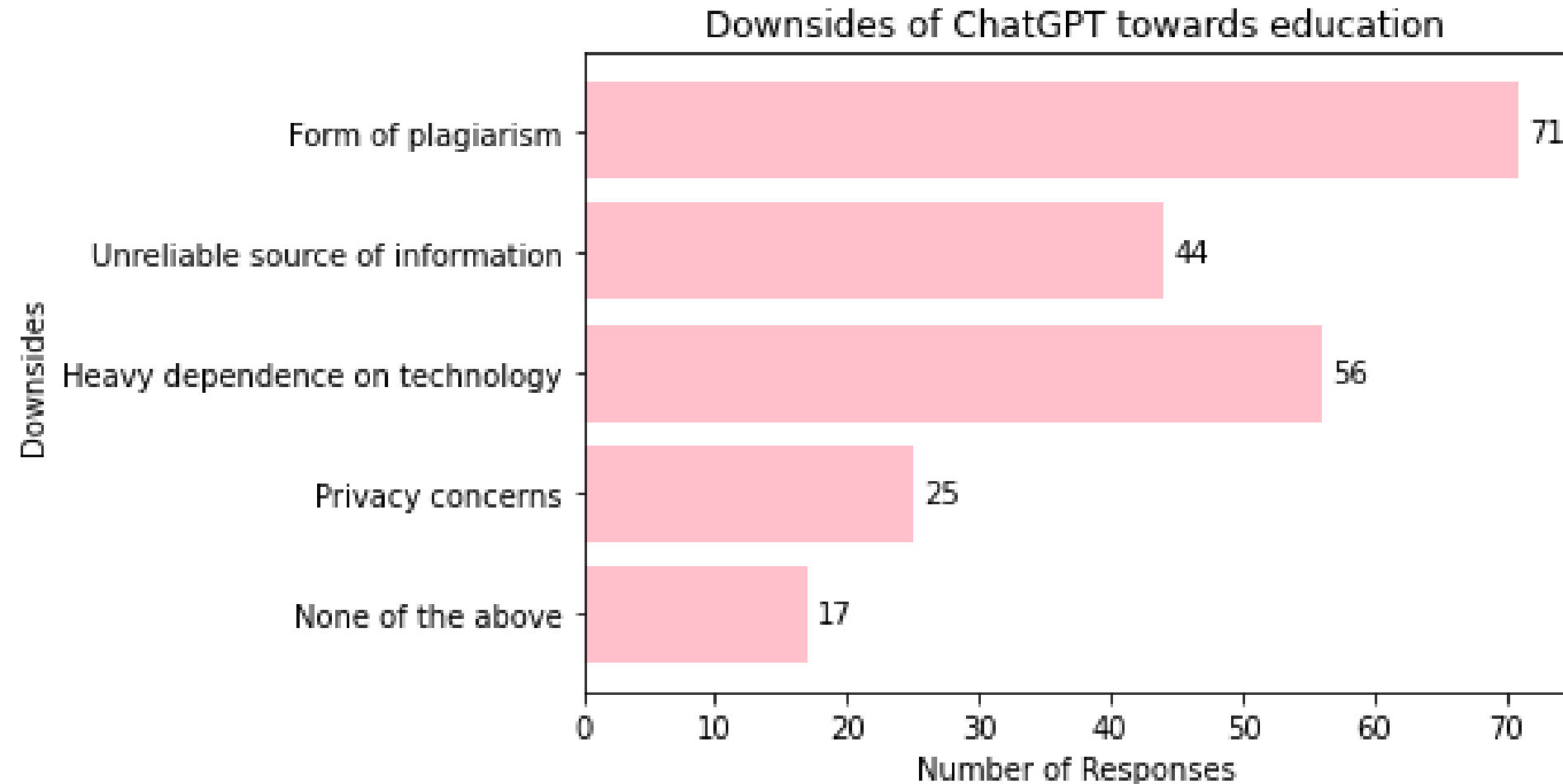


- PARTICIPANTS WERE ASKED TO SELECT ALL DOWNSIDES OF CHATGPT IN EDUCATION
- RESPONSES:
  - FORM OF PLAGIARISM
  - UNRELIABLE SOURCE OF INFORMATION
  - HEAVY DEPENDENCE ON TECHNOLOGY
  - PRIVACY CONCERNS
  - NONE OF THE ABOVE
- RESPONSES ANALYSIS:
  - FORM OF PLAGIARISM WAS THE MOST COMMONLY SELECTED DOWNSIDE, FOLLOWED BY HEAVY DEPENDENCE ON TECHNOLOGY AND UNRELIABLE SOURCE OF INFORMATION.
  - PRIVACY CONCERNS WERE SELECTED LESS FREQUENTLY.
  - A SIGNIFICANT NUMBER OF PARTICIPANTS SELECTED "NONE OF THE ABOVE".

# DOWNSIDES OF CHATGPT IN EDUCATION



- IMPLICATIONS FOR EDUCATION:
  - CHATGPT SHOULD BE USED WITH CAUTION IN EDUCATIONAL SETTINGS TO AVOID ISSUES OF PLAGIARISM AND UNRELIABLE INFORMATION.
  - TEACHERS AND STUDENTS SHOULD BE EDUCATED ON THE PROPER USE OF CHATGPT AND HOW TO EVALUATE THE RELIABILITY OF ITS RESPONSES.
  - PRIVACY CONCERNS RELATED TO THE USE OF CHATGPT SHOULD BE ADDRESSED AND APPROPRIATE MEASURES SHOULD BE TAKEN TO PROTECT USER PRIVACY.
  - THE HEAVY DEPENDENCE ON TECHNOLOGY CAN HAVE IMPLICATIONS FOR STUDENTS' ABILITY TO DEVELOP CRITICAL THINKING AND PROBLEM-SOLVING SKILLS.



# PROBLEMS AI CAN POSE TO EDUCATION

WEB TRAFFIC

WEB TRAFFIC

REAL-WORLD HARM

DATA PRIVACY

STUDENT'S KNOWLEDGE

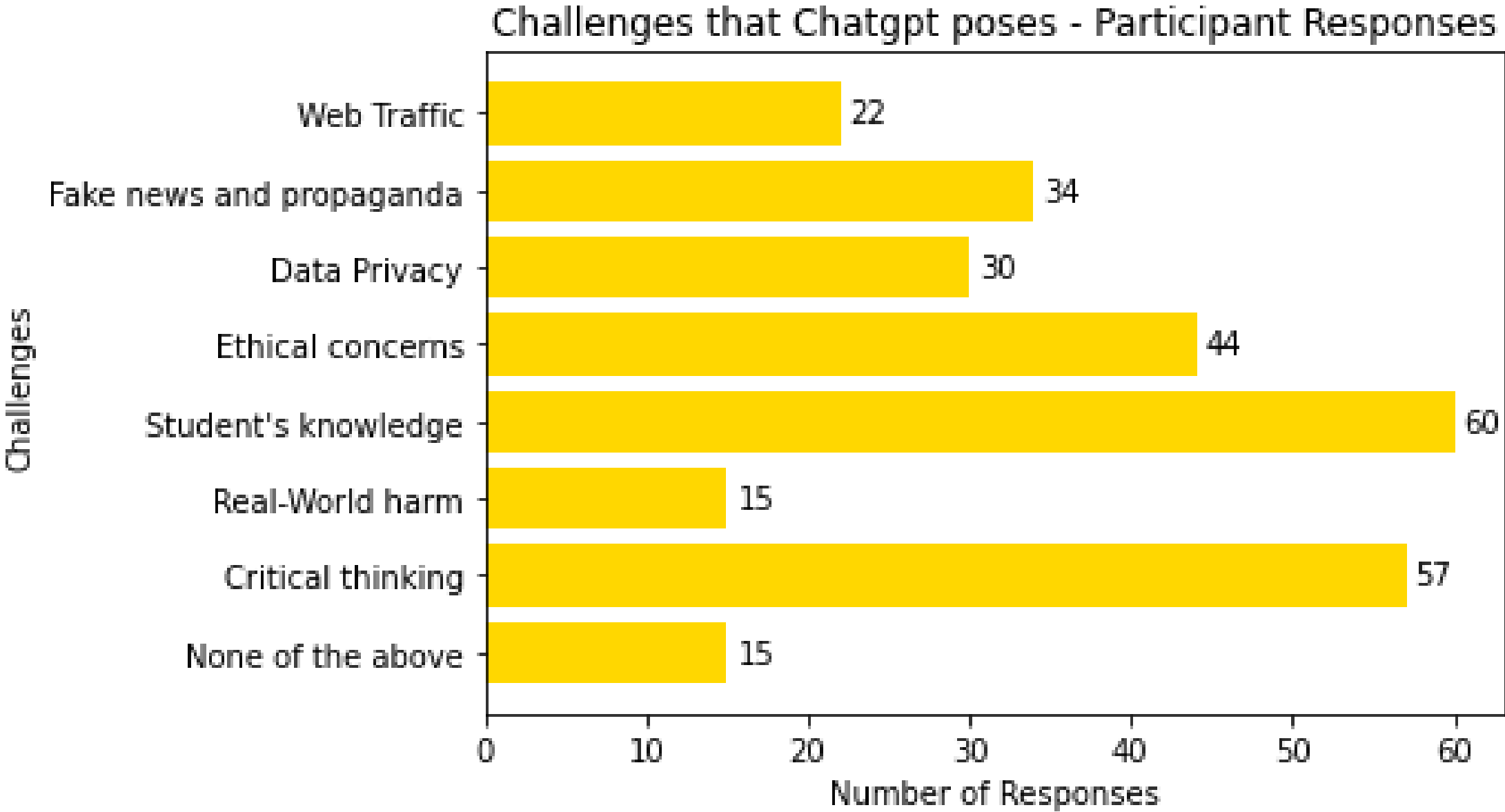
FAKE NEWS AND PROPAGANDA

ETHICAL CONCERNS

CRITICAL THINKING

- LOOKING AT THE RESULTS, WE CAN SEE THAT THE MOST COMMONLY SELECTED CHALLENGES WERE FAKE NEWS AND PROPAGANDA, ETHICAL CONCERNS, STUDENT'S KNOWLEDGE, AND CRITICAL THINKING. THESE WERE SELECTED IN VARIOUS COMBINATIONS, BUT THEY CONSISTENTLY APPEARED IN THE RESPONDENTS' SELECTIONS.
- DATA PRIVACY WAS ALSO A COMMONLY SELECTED CHALLENGE, BUT NOT AS FREQUENTLY AS THE OTHER AREAS MENTIONED ABOVE.
- WEB TRAFFIC AND REAL-WORLD HARM WERE THE LEAST COMMONLY SELECTED CHALLENGES, WITH RESPONDENTS RARELY SELECTING THEM AS POTENTIAL CHALLENGES ASSOCIATED WITH USING CHATGPT.

OVERALL, THE RESULTS SUGGEST THAT THERE ARE SEVERAL POTENTIAL CHALLENGES ASSOCIATED WITH USING CHATGPT, PARTICULARLY IN THE AREAS OF MISINFORMATION AND ETHICAL CONSIDERATIONS. IT IS IMPORTANT TO ADDRESS THESE CHALLENGES AND FIND WAYS TO MITIGATE THEM IN ORDER TO ENSURE THAT THE USE OF CHATGPT IS RESPONSIBLE AND BENEFICIAL.



## THE FUTURE OF CHATGPT IN EDUCATION



CHATGPT HAS FEATURES THAT CAN BE USED TO MAKE EVERYDAY TASKS EASIER, INCLUDING WRITING PROFESSIONAL EMAILS AND PLANNING PERSONALIZED TIMETABLES.

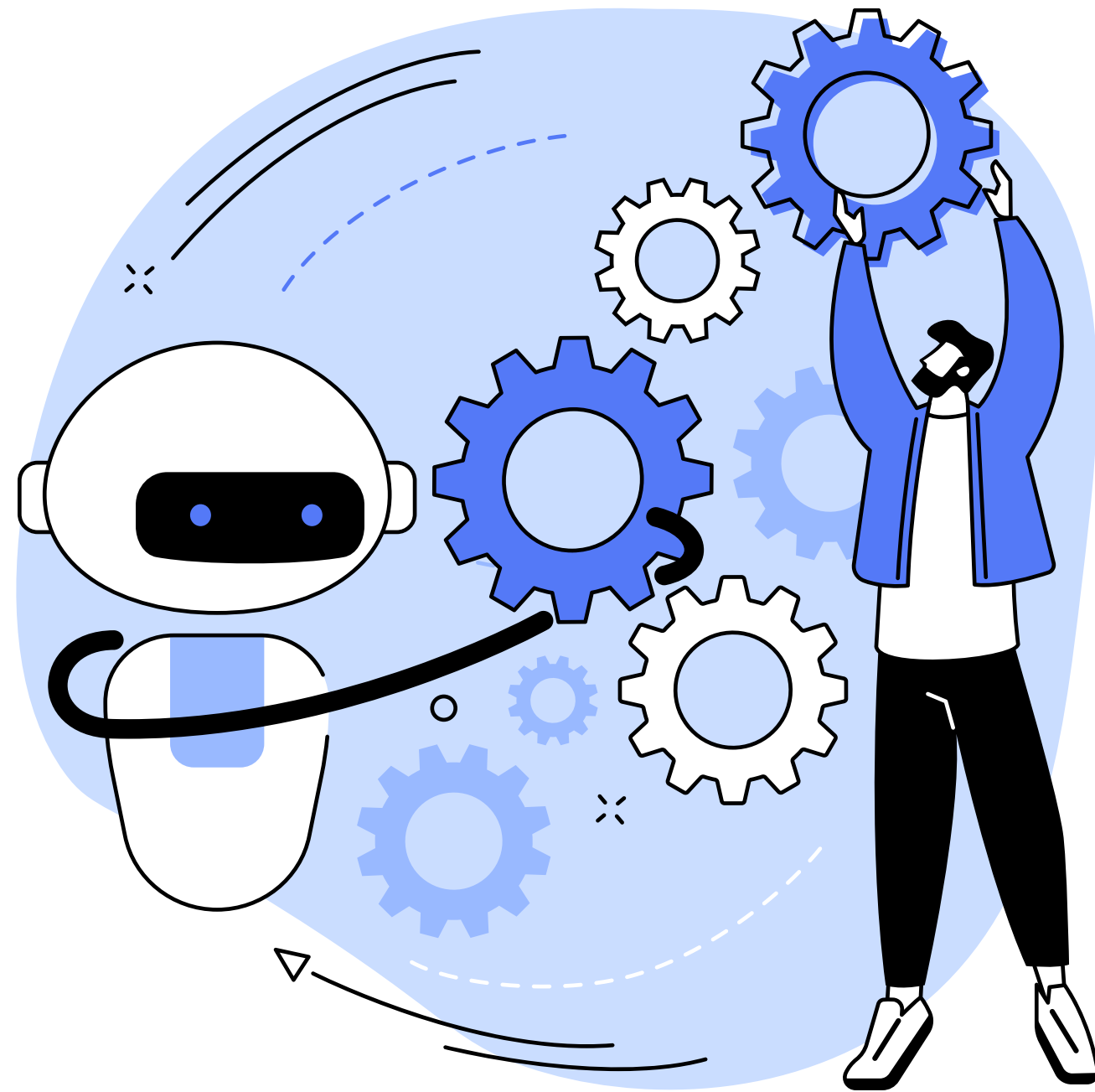
WHEN WRITING EMAILS TO COLLEAGUES, PROFESSORS, OTHER STUDENTS, OR FUTURE BOSSES, CHATGPT CAN ENSURE THAT YOU CAN EXECUTE A WELL-WRITTEN EMAIL THAT IS APPROPRIATE FOR THE SUBJECT.

CHATGPT CAN ALSO HELP IN PLANNING AND SCHEDULING FUTURE TIMETABLES THAT ARE TAILORED TO EACH INDIVIDUAL'S NEEDS AND PREFERENCES.

THE FUTURE OF CHATGPT IN EDUCATION IS PROMISING, WITH THE POTENTIAL FOR THE CHATBOT TO ASSIST STUDENTS IN A VARIETY OF WAYS, FROM ACADEMIC RESEARCH TO TIME MANAGEMENT.

AS CHATGPT CONTINUES TO EVOLVE, IT IS LIKELY THAT IT WILL BECOME AN INCREASINGLY IMPORTANT TOOL IN THE EDUCATIONAL LANDSCAPE, HELPING STUDENTS TO LEARN AND ACHIEVE THEIR GOALS MORE EFFICIENTLY AND EFFECTIVELY.

# OUR OPINION AS A GROUP



- CHATGPT CAN BE A VALUABLE TOOL FOR STUDENTS IN THE EDUCATIONAL SETTING.
- HOWEVER, IT SHOULD BE USED RESPONSIBLY AND APPROPRIATELY.
- CHATGPT SHOULD BE VIEWED AS A SUPPORTING TOOL TO ASSIST STUDENTS IN THEIR LEARNING, RATHER THAN A REPLACEMENT FOR CRITICAL THINKING AND INDEPENDENT WORK.
- STUDENTS WHO RELY TOO HEAVILY ON CHATGPT MAY NOT BE DEVELOPING THE NECESSARY SKILLS AND KNOWLEDGE TO SUCCEED IN THEIR ACADEMIC AND PROFESSIONAL LIVES.
- THEREFORE, IT IS IMPORTANT FOR STUDENTS TO UNDERSTAND THE LIMITATIONS OF CHATGPT AND TO USE IT IN CONJUNCTION WITH THEIR OWN EFFORTS AND THOUGHT PROCESSES.
- WHEN USED PROPERLY, CHATGPT CAN ENHANCE THE LEARNING EXPERIENCE BY PROVIDING QUICK AND ACCURATE RESPONSES TO QUERIES AND HELPING STUDENTS TO GENERATE IDEAS AND EXPLORE NEW TOPICS.

- WHILE OUR SURVEY ON THE USE OF CHATGPT IN EDUCATION YIELDED VALUABLE INSIGHTS, THERE ARE LIMITATIONS TO OUR STUDY.
- ONE LIMITATION IS THAT THE SURVEY WAS CONDUCTED WITH A LIMITED NUMBER OF PARTICIPANTS, WHICH MAY AFFECT THE GENERALIZABILITY OF OUR FINDINGS.
- ADDITIONALLY, THE SURVEY DID NOT INCLUDE STUDENTS FROM ALL FACULTIES, AND MAINLY FOCUSED ON UNDERGRADUATE STUDENTS. THIS LIMITS THE RANGE OF PERSPECTIVES AND EXPERIENCES THAT WERE CAPTURED IN OUR STUDY.
- TO IMPROVE OUR STUDY AND ADDRESS THESE LIMITATIONS, FUTURE RESEARCH SHOULD AIM TO INCLUDE A WIDER RANGE OF PARTICIPANTS ACROSS VARIOUS FACULTIES AND EDUCATIONAL LEVELS.
- BY DOING SO, WE CAN GAIN A MORE COMPREHENSIVE UNDERSTANDING OF THE CHALLENGES AND OPPORTUNITIES ASSOCIATED WITH THE USE OF CHATGPT IN EDUCATION, AND IDENTIFY WAYS TO BETTER SUPPORT STUDENTS AND EDUCATORS IN USING THIS TECHNOLOGY EFFECTIVELY.

# **LIMITATIONS AND FURTHER STUDIES**

