

# Exploring the Role and Reach of AI Chat Tools Among Engineering Students

This survey aims to understand how engineering students use AI chat tools, their perceptions, and experiences. Please answer honestly.

## **Personal and Academic Information**

*Let's get to know you a little! This section is just some basic info about your academic background. Nothing complicated—we promise.*

## 1. Name of your University

*Mark only one oval.*

- ☐ University of Dhaka
- ☐ Bangladesh University of Engineering and Technology
- ☐ Brac University
- ☐ Khulna University of Engineering and Technology
- ☐ Bangladesh University of Professionals
- ☐ Ahsanullah University of Science and Technology
- ☐ Daffodil International University
- ☐ University of Asia Pacific
- ☐ Rajshahi University of Engineering and Technology
- ☐ Military Institute of Science and Technology
- ☐ University of Liberal Arts Bangladesh
- ☐ Bangladesh University of Business and Technology
- ☐ American International University - Bangladesh
- ☐ International Islamic University Chittagong
- ☐ International University of Business Agriculture and Technology
- ☐ United International University
- ☐ North South University
- ☐ Chittagong University of Engineering and Technology
- ☐ Other: \_\_\_\_\_

**2. Which department you are currently studying in?***Mark only one oval.*

- ☐ Robotics and Mechatronics Engineering
- ☐ Civil Engineering
- ☐ Software Engineering
- ☐ Computer Science and Engineering
- ☐ Applied Chemistry and Chemical Engineering
- ☐ Nuclear Engineering
- ☐ Electrical and Electronic Engineering
- ☐ Other: \_\_\_\_\_

**3. Current academic year***Mark only one oval.*

- ☐ Undergraduate- 1st
- ☐ Undergraduate- 2nd
- ☐ Undergraduate- 3rd
- ☐ Undergraduate- 4th
- ☐ Graduate
- ☐ PhD

**4. Gender***Mark only one oval.*

- ☐ Male
- ☐ Female
- ☐ Other: \_\_\_\_\_

## General Usage

*Let's talk about how you actually use AI chat tools in real life! Whether it's for debugging code at midnight, writing that last-minute report, or just figuring out confusing concepts—this section is all about your habits, preferences, and go-to tools. Be honest—your experience matters!*

5. Have you ever used any of these chat tools before? (e.g., ChatGPT, Deepseek, Gemini, Grok, Claude, or any others—please specify)

*Tick all that apply.*

☐ Yes

☐ No

☐ Other: \_\_\_\_\_

## 6. Which AI tool do you prefer for specific task?

1. Coding & Debugging
  2. Thesis/ Academic Research
  3. Data Analysis
  4. Writing Reports and Assignments
  5. Translation
  6. Topic summarization & Understanding
  7. Brainstorming/ Idea Generation
  8. Image Generation
  9. Others
- (You can select more than one option)

*Tick all that apply.*

	1	2	3	4	5	6	7	8	9
<b>ChatGPT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Deepseek</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Gemini</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Grok</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Claude</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Others</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## 7. Please explain your reasoning with choosing the particular tool for particular task?

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8. How frequently do you use these tools?

Mark only one oval per row.

	Never	Rarely	Weekly	Daily
ChatGPT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deepseek	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gemini	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Grok	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Claude	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. Have you ever used paid version of any of the chat tools? If so which tool and why?

Tool Evaluation

10. For each AI tool listed below, please rate them based on your experience. If you haven't used a tool, select 'Not Used'

*Mark only one oval per row.*

	Very Poor	Poor	Neutral	Good	Excellent	Not Used
<b>ChatGPT</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Deepseek</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Gemini</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Grok</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Claude</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Others</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Perceptions & Preferences

11. Please rank the following AI tools based on your personal preference (1 = Most preferred, 5 = Least preferred)

*Mark only one oval per row.*

	1	2	3	4	5
<b>ChatGPT</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Deepseek</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Gemini</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Grok</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Claude</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Others</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. What factors influence your choice of an AI chat tool?  
(Select all that apply or add your own)

*Tick all that apply.*

- ☐ Accuracy of responses  
☐ Ease of use/interface  
☐ Creativity or flexibility  
☐ Multimodal capabilities  
☐ Integration with other tools  
☐ Free or Paid  
☐ Other: \_\_\_\_\_

13. What limitations or problems have you faced while using AI chat tools?

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14. What improvements or new features would you want in these AI tools?

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15. Do you think AI chat tools should be integrated into the academic curriculum?

*Mark only one oval.*

- ☐ Yes  
☐ No  
☐ Not Sure



16. *Please explain your choice:*

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17. In your opinion, how can AI-assisted learning enhance personalized education in technical fields like engineering?

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### Ethical and Educational Considerations

*AI tools are powerful—but what about the ethical side? This section explores how you feel about AI use beyond just studying—like fairness, honesty, and human replacement.*

18. Have you ever used any AI chat tools for social purposes or leisure purposes?

*Mark only one oval.*

☐ Yes

☐ No

19. *Please explain your experience:*

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20. Have you ever gotten wrong or confusing answers from AI chat tools while working on engineering problems? If so, how did you figure out what was correct? *(please explain your experience)*

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21. Do you think AI chat tools could take over from regular tutors or teachers?

*Mark only one oval.*

- ☐ Not at all
- ☐ A little bit
- ☐ Neutral
- ☐ Somewhat
- ☐ Totally

22. Do you believe using AI chatbots for academic work constitutes academic dishonesty?

*Mark only one oval.*

- ☐ Yes
- ☐ No
- ☐ Depends on how it's used

23. *please explain your reasoning:*

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24. Have you ever noticed any kind of bias in the responses given by these chatbots? If yes, please explain.

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#### Changes in Study Habits

*Has your study style changed since you started using AI tools? Less time with textbooks? More confident in tough topics? Let's explore how your habits may have shifted.*

25. How has your AI chat tool changed your study habits?(*Please explain your most preferred tools and reasoning:*)

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26. Have AI chat tools reduced your reliance on traditional study resources (e.g., library books, research articles)

*Mark only one oval.*

☐ Yes

☐ No

☐ Not Sure

27. *Please explain your answer*

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28. Have you ever faced any challenges in AI assisted learning systems?

*Mark only one oval.*

☐ Yes

☐ No

☐ Not Sure

29. *Please explain your answer*

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### Personal and Academic Development

*Beyond just passing exams—have AI tools helped you grow? Think creativity, problem-solving, time management. Rate how much these tools have impacted you personally and academically.*

30. AI chat tools have -

*Mark only one oval per row.*

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
<b>Increased study efficiency</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Improved exam grades</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Increased problem- solving skills</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Improved creativity skills</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### University Policy and Ethical Awareness Regarding AI Tools

*Does your university even talk about AI use in class? Are there rules? Guidelines? Let's find out what kind of awareness (if any) exists in your academic environment.*

31. Does your university have a formal policy or guidelines on the use of AI tools for academic purposes?

*Mark only one oval.*

- ☐ Yes
- ☐ No
- ☐ Not Sure

32. Has your university provided training or education on ethical use of AI tools in coursework and research?

*Mark only one oval.*

☐ Yes

☐ No

☐ Not Sure

33. Are there any restrictions at your university on AI tool usage in assignments, exams, or projects?

*Mark only one oval.*

☐ Yes

☐ No

☐ Not Sure

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