

# Cognitive and Educational Impacts of GenAi usage among university students

You are invited to participate in a research study conducted as part of a MSc. Statistics project at The Maharaja Sayajirao University of Baroda.

The purpose of this study is to understand the **Cognitive and Educational impacts of Generative AI (GenAI) usage among university students.**

Participation in this study is entirely voluntary. The questionnaire will take approximately **10-12 minutes** to complete.

All responses will be kept anonymous, and no personally identifiable information will be collected or shared with any third party. The data will be used solely for academic research purposes.

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\* Indicates required question

1. **Age \***

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2. **Gender \***

*Mark only one oval.*

☐

Male

☐

Female

☐

Prefer not to say

3. **CGPA of Previous Semester \***

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4. **Schooling Background \***

*Mark only one oval.*

☐

Private

☐

Semi-Private

☐

Government

5. **Faculty \***

*Mark only one oval.*

- ☐ Faculty of Arts
- ☐ Faculty of Commerce
- ☐ Faculty of Education and Psychology
- ☐ Faculty of Family and Community Sciences
- ☐ Faculty of Fine Arts
- ☐ Faculty of Journalism and Communication
- ☐ Faculty of Law
- ☐ Faculty of Management Studies
- ☐ Faculty of Performing Arts
- ☐ Faculty of Pharmacy
- ☐ Faculty of Science
- ☐ Faculty of Social Work
- ☐ Faculty of Technology and Engineering

6. **Level of study \***

*Mark only one oval.*

- ☐ Undergraduate
- ☐ Postgraduate
- ☐ Integrated Course

7. **Year of Study \***

*Mark only one oval.*

- ☐ First Year (UG)
- ☐ Second Year (UG)
- ☐ Third Year (UG)
- ☐ Fourth Year (UG)
- ☐ First Year (PG)
- ☐ Second Year (PG)

8. **Do you know what Generative AI (GenAI) means?** \*

*Mark only one oval.*

☐ Yes

☐ No

9. **Which AI tool do you use most frequently for academic purposes?** \*

*Mark only one oval.*

☐ ChatGPT

☐ Gemini

☐ Perplexity

☐ Copilot

☐ I do not use AI regularly

10. **Do you have a paid subscription to any AI tool?** \*

*Mark only one oval.*

☐ Yes

☐ No

11. **How many AI platforms are you subscribed to?** \*

*Mark only one oval.*

☐ 0

☐ 1

☐ 2

☐ 3

☐ more than 3

12. **How much do you spend per month on AI subscriptions? (in INR)** \*

*(enter 0 if you do not spend any money).*

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**AI Usage Patterns**

13. For which purposes do you use AI tools? \*

*Tick all that apply.*

	ChatGPT	Gemini	Copilot	Perplexity	I don't use any AI tool for this purpose
Project / Assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concept learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Summarizing or Writing assistance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exam Preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Research or Idea generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Programming and Coding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. How frequently do you use AI tools for the following purposes? \*

Mark only one oval per row.

	Never	Rarely	Sometimes	Often	Always
Project / Assignment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Concept Learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Summarizing or Writing assistance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exam Preparation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research or Idea generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming and Coding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate how much you agree or disagree with each of the following statements based on your experience.

15. Academic Impact \*

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
My academic grades have changed due to my use of AI tools.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AI helps me learn more effectively compared to traditional learning methods.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AI-related learning should be included in every academic curriculum.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. Study Preferences & Academic Behaviour \*

Mark only one oval per row.

	Never	Rarely	Sometimes	Often	Always
I prefer using AI over books for academic learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I prefer asking my academic doubts to AI rather than to my subject teacher.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have relied on AI to such an extent that it reduced my own critical thinking or effort.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have submitted AI-generated content without making major edits.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using AI has reduced my academic stress or workload.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using AI tools helps me explore topics independently beyond what is taught in the classroom.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. Please rate each statement using the scale provided. \*  
(1 = very low / not at all, 10 = very high / very much)

Mark only one oval per row.

	1	2	3	4	5	6	7	8	9	10
How much do you trust AI-generated academic information?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To what extent does AI help you understand course content deeply?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Since using AI, how has your motivation to study on your own changed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How anxious do you feel about completing academic work without AI tools?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How dependent do you feel on AI to complete assignments?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Please rate each statement using the scale provided based on your experience.



18. Cognitive Offloading \*

Mark only one oval per row.

	1	2	3	4	5
How often do you use search engines (e.g. Google) or AI tools to find information quickly? (1 = Never, 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compared to the past, do you feel that finding information has become faster and more convenient with technology? (1 = Strongly Disagree , 5 = Strongly Agree)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How often do you use your smartphone or other digital devices to remember tasks or information? (1 = Never , 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When faced with a problem or question , how likely are you to search for the answer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

online rather  
than trying  
to figure it  
out  
yourself?(1  
= Very  
Unlikely, 5 =  
Very Likely)

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Overall, how  
dependent  
are you on  
digital  
devices for  
daily tasks  
and  
information  
retrieval? (1  
= Not  
Dependent,  
5 = Very  
Likely)

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☐☐☐☐☐

## 19. Critical Thinking \*

Mark only one oval per row.

	1	2	3	4	5
How often Do you critically evaluate the sources of information you encounter?(1=Never , 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How confident are you in your ability to discern fake news from legitimate news?(1 = Not Confident , 5 = Very Confident)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When researching a topic, how often do you compare information from multiple sources?(1 = Never , 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How often do you question the motives behind the information shared by AI tools?(1 = Never, 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I analyse the credibility of the author when reading news or information provided by AI tools?(1= Strongly Disagree , 5= Strongly Agree)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How frequently do you reflect on the biases in your own thinking when making decisions(1 = Never , 5 = Always)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I compare multiple sources of	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

information before  
forming an opinion  
based on AI  
recommendations(1  
≡ Strongly Disagree  
; 5 ≡ Strongly Agree)

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I question the  
assumptions  
underlying the  
information  
provided by AI  
tools(1 ≡ Strongly  
Disagree ; 5 ≡  
Strongly Agree)

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☐ ☐ ☐ ☐ ☐

## AI Dependency

*Please rate each statement using the scale provided based on your experience.*

20. Cognitive Preoccupation \*

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
My decisions are often influenced by generative AI.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel an urge to use generative AI, even when it may not be necessary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I look forward to using generative AI, even if it is unrelated to the task at hand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. **Negative Consequences** \*

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
<b>My use of generative AI has caused concerns for me.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I have trouble completing work or other responsibilities without generative AI.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>I feel less confident in my abilities Without generative AI.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>My use of generative AI has negatively affected my problem- solving skills or efficiency.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

22. **Withdrawal \***

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I experience restlessness if i am unable to use generative AI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel unsettled or distracted when I cannot use generative AI.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel a sense of disconnection when I cannot access generative AI.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I get frustrated or irritable when I am unable to use generative AL.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Creativity**

23. Compared to doing the task without AI tools, how has using AI affected your creativity in the following activities? \*

( 1 = Much less Creative, 2 = less creative, 3 = neither more or less creative, 4 = more creative, 5 = much more creative)

Mark only one oval per row.

	1	2	3	4	5
<b>Writing a non-fiction article for a newspaper , newsletter or magazine</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Writing a letter to the editor</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Researching a topic using many different types of sources that may not be readily apparent</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Debating a controversial topic from my own perspective</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Responding to an issue in a context-appropriate way</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Gathering the best possible assortment of articles or papers to support a specific point of view</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Arguing a side in a debate that i do not</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



personally  
agree with

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Analyzing  
the themes  
in a good  
book

☐☐☐☐☐

Figuring out  
how to  
integrate  
critiques and  
suggestions  
while  
revising a  
work

☐☐☐☐☐

Being able  
to offer  
constructive  
feedback  
based on my  
own reading  
of a paper

☐☐☐☐☐

Coming up  
with a new  
way to think  
about an old  
debate

☐☐☐☐☐

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