

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.

* Indicates required question

1. Age *

2. Gender *

Mark only one oval.

- Male
- Female
- Prefer not to say

3. CGPA of Previous Semester *

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).

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"/>				
Concept learning	<input type="checkbox"/>				
Summarizing or Writing assistance	<input type="checkbox"/>				
Exam Preparation	<input type="checkbox"/>				
Research or Idea generation	<input type="checkbox"/>				
Programming and Coding	<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"/>				
Concept Learning	<input type="radio"/>				
Summarizing or Writing assistance	<input type="radio"/>				
Exam Preparation	<input type="radio"/>				
Research or Idea generation	<input type="radio"/>				
Programming and Coding	<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
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My academic grades have changed due to my use of AI tools.

<input type="radio"/>				
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AI helps me learn more effectively compared to traditional learning methods.

<input type="radio"/>				
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AI-related learning should be included in every academic curriculum.

<input type="radio"/>				
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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"/>				
I prefer asking my academic doubts to AI rather than to my subject teacher.	<input type="radio"/>				
I have relied on AI to such an extent that it reduced my own critical thinking or effort.	<input type="radio"/>				
I have submitted AI-generated content without making major edits.	<input type="radio"/>				
Using AI has reduced my academic stress or workload.	<input type="radio"/>				
Using AI tools helps me explore topics independently beyond what is taught in the classroom.	<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?

To what

extent does

AI help you

understand

course

content

deeply?

Since using

AI, how has

your

motivation to

study on your

own

changed?

How anxious

do you feel

about

completing

academic

work without

AI tools?

How

dependent do

you feel on AI

to complete

assignments?

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)

Compared
to the past,
do you feel
that finding
information
has become
faster and
more
convenient
with
technology?
(1 = Strongly
Disagree , 5
= Strongly
Agree)

How often
do you use
your
smartphone
or other
digital
devices to
remember
tasks or
information?
(1 = Never ,
5 = Always)

When faced
with a
problem or
question ,
how likely
are you to
search for
the answer

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

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

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)

How confident are you in your ability to discern fake news from legitimate news?(1 = Not Confident , 5 = Very Confident)

When researching a topic, how often do you compare information from multiple sources?(1 = Never , 5 = Always)

How often do you question the motives behind the information shared by AI tools?(1 = Never, 5 = Always)

I analyse the credibility of the author when reading news or information provided by AI tools?(1= Strongly Disagree , 5= Strongly Agree)

How frequently do you reflect on the biases in your own thinking when making decisions(1 = Never , 5 = Always)

I compare multiple sources of

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

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

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
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**My
decisions
are often
influenced
by
generative
AI.**

<input type="radio"/>				
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**I feel an
urge to
use
generative
AI, even
when it
may not
be
necessary.**

<input type="radio"/>				
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**I look
forward to
using
generative
AI, even if
it is
unrelated
to the task
at hand**

<input type="radio"/>				
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21. Negative Consequences *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
My use of generative AI has caused concerns for me.	<input type="radio"/>				
I have trouble completing work or other responsibilities without generative AI.	<input type="radio"/>				
I feel less confident in my abilities Without generative AI.	<input type="radio"/>				
My use of generative AI has negatively affected my problem-solving skills or efficiency.	<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"/>				
I feel unsettled or distracted when I cannot use generative AI.	<input type="radio"/>				
I feel a sense of disconnection when I cannot access generative AI.	<input type="radio"/>				
I get frustrated or irritable when I am unable to use generative AI.	<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

**Writing a
non-fiction
article for a
newspaper,
newsletter
or magazine**

**Writing a
letter to the
editor**

**Researching
a topic using
many
different
types of
sources that
may not be
readily
apparent**

**Debating a
controversial
topic from
my own
perspective**

**Responding
to an issue
in a context-
appropriate
way**

**Gathering
the best
possible
assortment
of articles or
papers to
support a
specific
point of view**

**Arguing a
side in a
debate that i
do not**

**personally
agree with**

**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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