

AI Tool Usage by Indian College Students

Data Analytics Project

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Gemini

Copilot

Claude

INTRODUCTION

- **Explosion of AI adoption in India.**
- **Tools like ChatGPT, Gemini, Copilot, Claude, Bard, Other**
- **Students use AI for learning, coding, assignments, productivity.**
- **Objective: Analyze how Indian students use AI and what patterns exist.**



Gemini

Copilot

Claude

PROBLEM STATEMENT

- How frequently do students use AI tools?
- Which AI tools are most popular?
- What are the key use cases?
- Does AI usage influence academic performance?
- What factors (stream, state, device, internet access) impact AI adoption?



DATASET OVERVIEW

Dataset includes:

- **Streams:** Engineering, Commerce, Science, Arts
- **AI Tools:** ChatGPT, Gemini, Copilot
- **Daily Usage Hours:** 0.5 to 5+ hours
- **Use Cases:** Assignments, Coding, Notes, Research, Projects
- **Impact on Grades:** Rated 1–10
- **Trust Level:** 1–5
- **State, Device Type, Internet Access**
- **Dataset Size:** 3614 records



AI AWARENESS LEVELS ACROSS STUDENT STREAMS

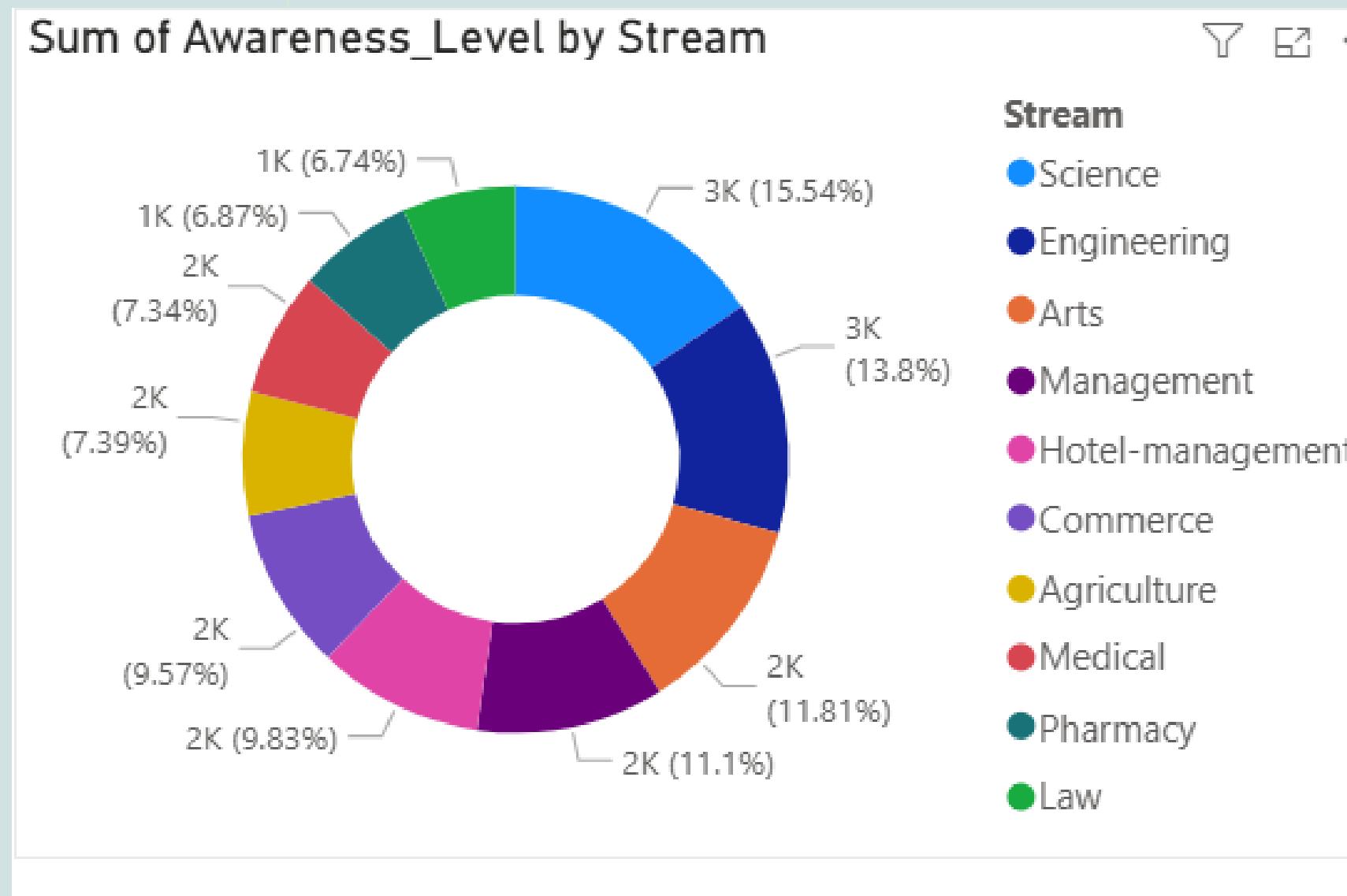


Figure - 1

- **Science – 15.54% (Highest awareness)**
- **Engineering – 13.8%**
- **Arts – 11.81%**
- **Management – 11.1%**
- **Commerce – 9.57%**
- **Hotel Management – 9.83%**
- **Agriculture – 7.39%**
- **Medical – 7.34%**
- **Pharmacy – 6.87%**
- **Law – 6.74% (Lowest awareness)**

MOST USED AI TOOLS (INSIGHT)

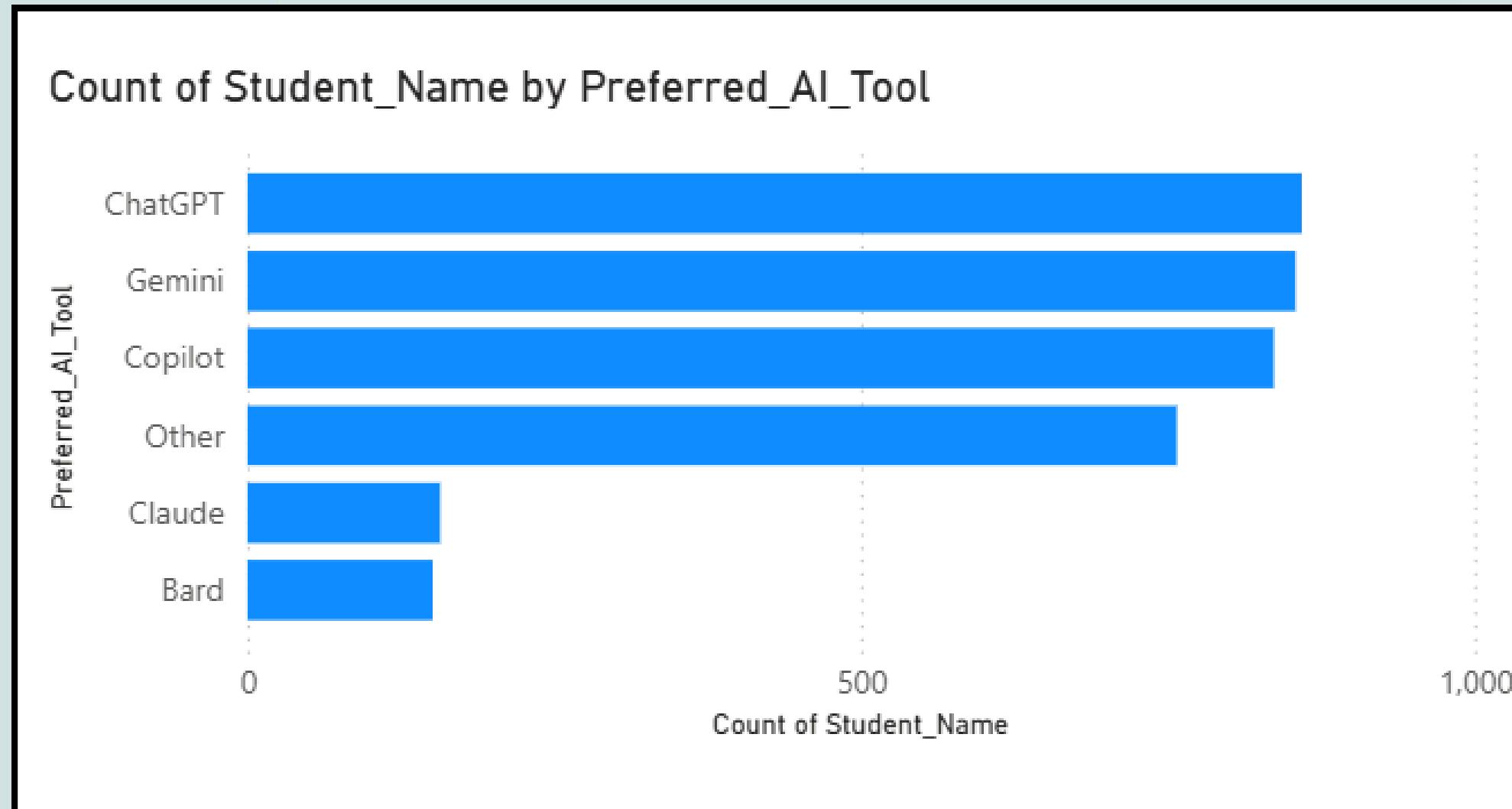


Figure - 2

- **ChatGPT is the most widely used AI tool among Indian students**
- **Gemini is preferred by first-year & general study users**
- **Copilot is heavily used by engineering and coding-focused students**
- **Overall, AI tools are used by more than 90% of students in the dataset**

DAILY USAGE & USE CASES

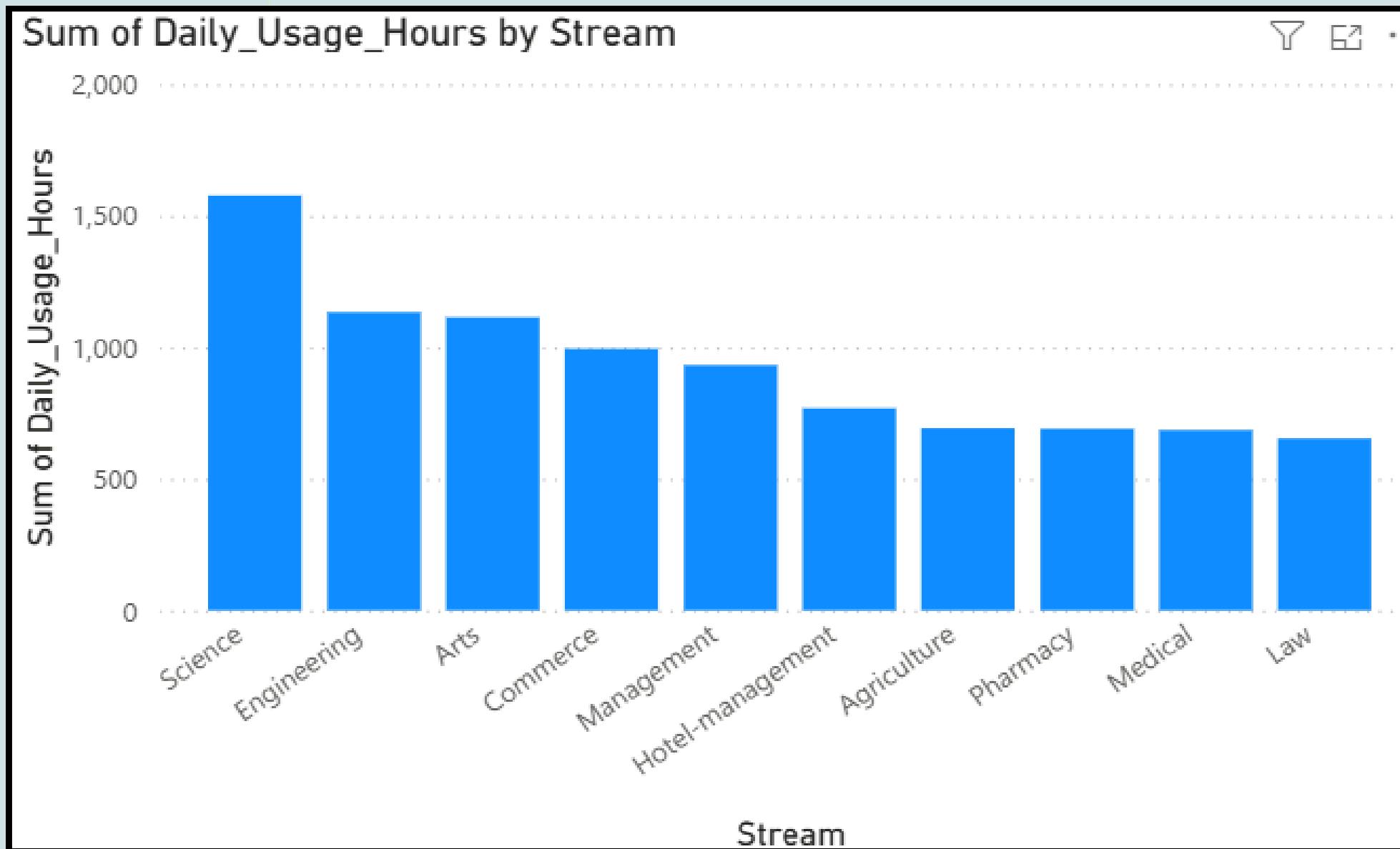


Figure - 3

Daily Usage Patterns:

- Majority use AI tools 2–4 hours per day
- Engineering & Science streams show higher usage time

Top Use Cases:

- Assignments
- Coding help
- Research
- Notes preparation
- Exam revision

IMPACT ON ACADEMIC PERFORMANCE

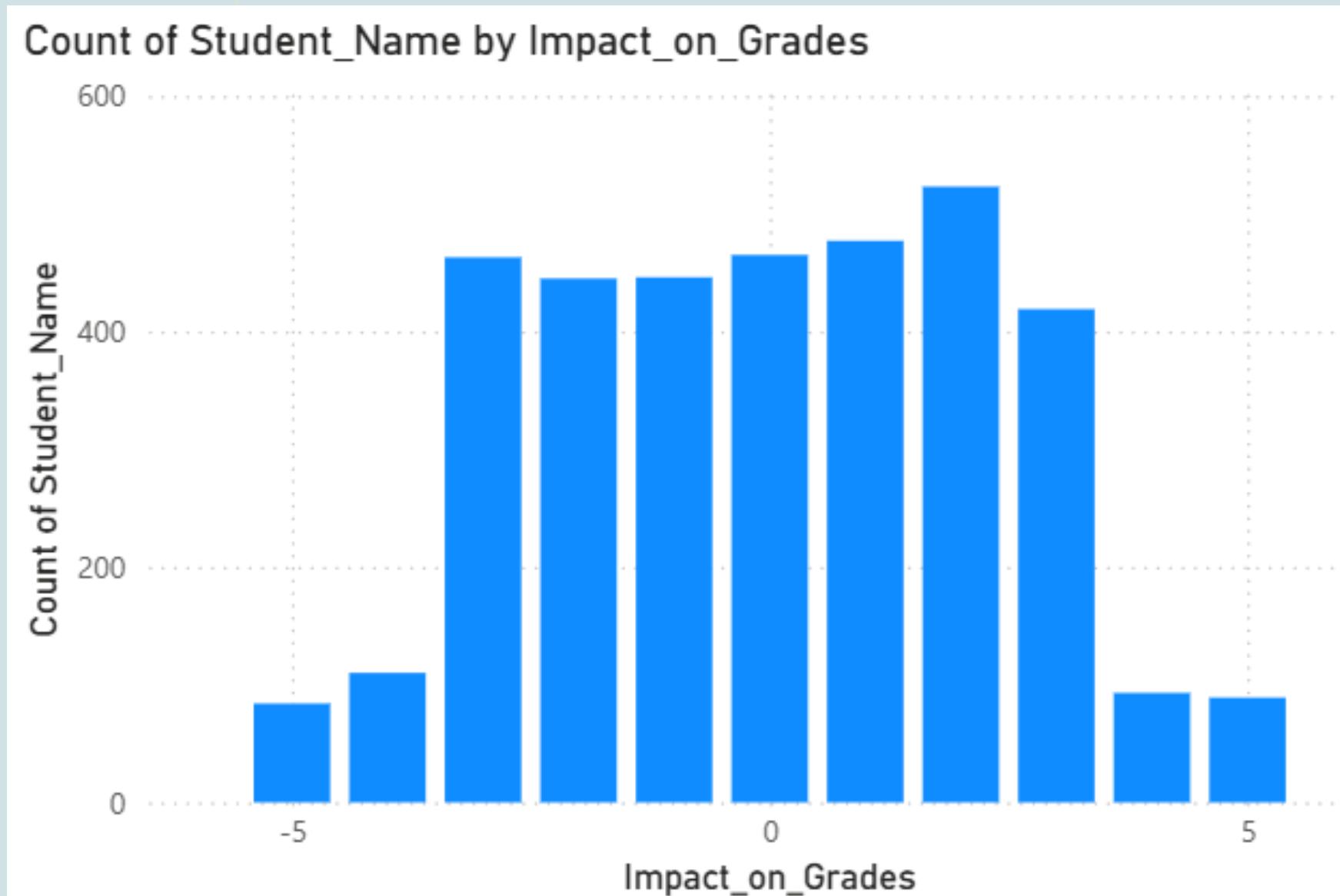


Figure - 4

- Most students experienced positive grade improvement
- Peak impact lies in the +2 to +4 range
- Negative impact cases are minimal
- AI tools generally enhance academic performance

DO PROFESSORS ALLOW STUDENTS TO USE AI TOOLS?

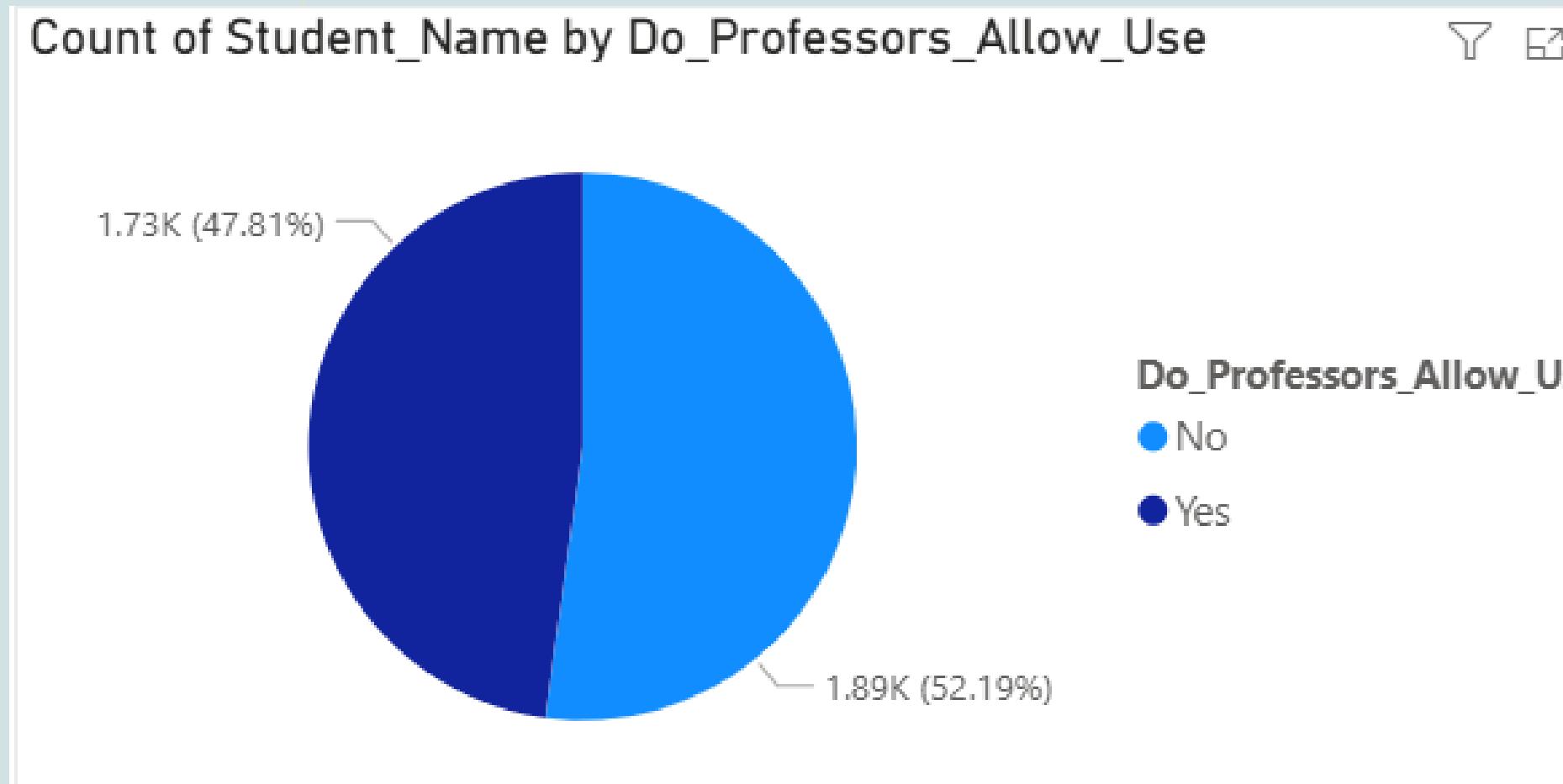


Figure - 5

- **52.19% (1.89K students) reported that professors do NOT allow the use of AI tools.**
- **47.81% (1.73K students) said their professors allow AI tool usage.**
- **The difference is small, showing mixed acceptance among faculty.**
- **Many colleges are still uncertain or cautious about AI usage in assignments and exams.**
- **Students face inconsistent AI policies depending on the department or professor.**

STREAM & STATE-LEVEL TRENDS

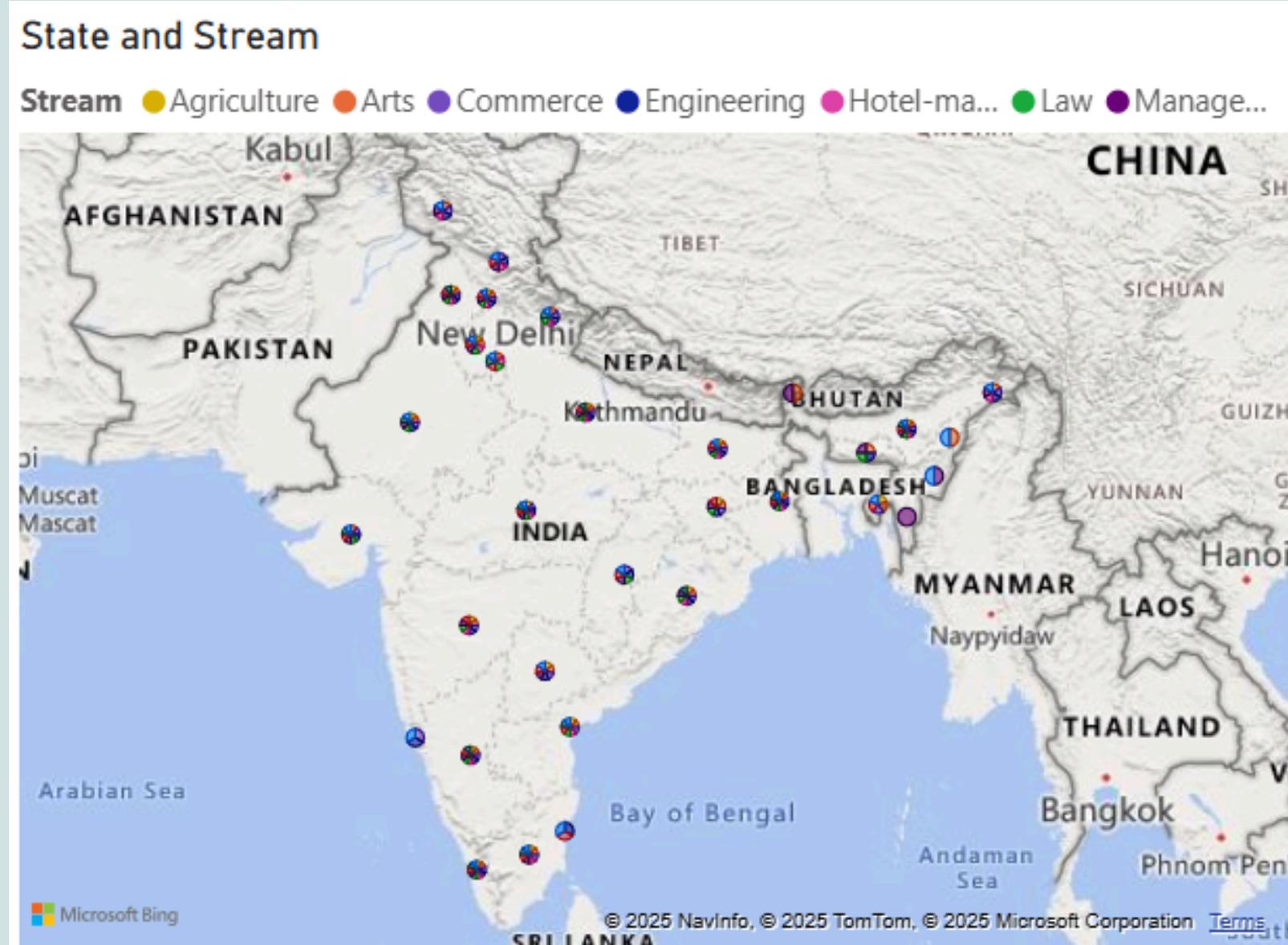


Figure - 6

- **Stream Trends:**
- **Engineering students show maximum adoption**
- **Commerce and Arts students mostly use AI for content writing & assignments**
- **Science students use AI for research & report preparation**
- **State Trends:**
- **Maharashtra, Karnataka, Tamil Nadu, and Delhi show the highest number of AI users**
- **Rural states & low-bandwidth locations show comparatively lower usage**

TRUST LEVEL OF STUDENTS IN AI TOOLS

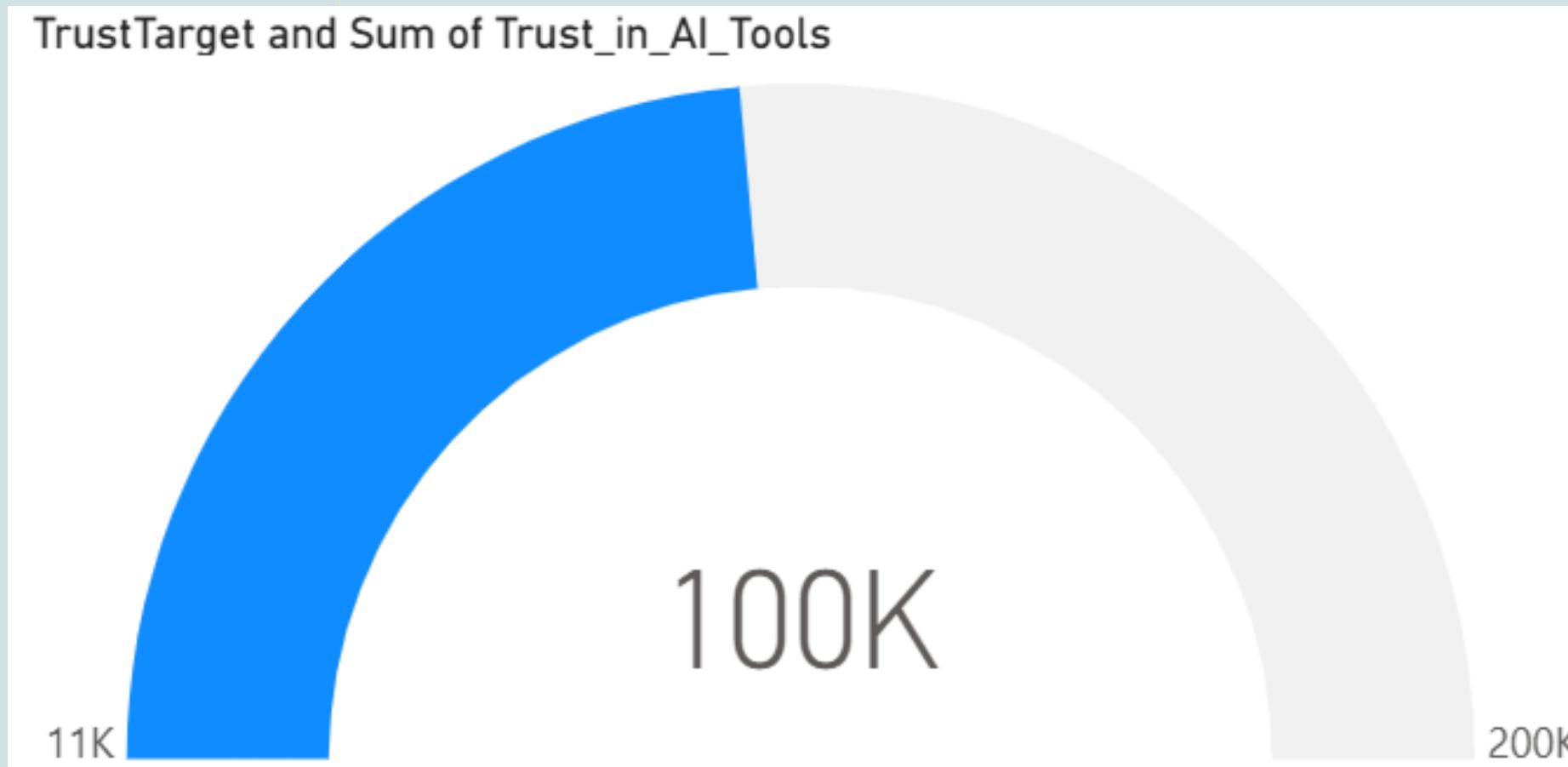


Figure - 7

- The total Trust in AI Tools reaches 100K, indicating strong overall confidence among students.
- The gauge shows students have achieved around 50% of the Trust Target (200K).
- This means trust is moderate to high, but not at the maximum potential yet.
- Students generally rely on AI tools, but still maintain some caution.
- The trust score reflects increasing acceptance of tools like ChatGPT, Gemini, and Copilot.

RECOMMENDATIONS

Students:

- Use AI as a learning assistant, not as a shortcut
- Cross-check answers given by AI
- Avoid over-dependence on AI

Colleges:

- Build clear AI usage guidelines
- Train faculty on AI literacy
- Integrate ethical AI into coursework



CONCLUSION

- AI tools are transforming how Indian college students learn, study, and complete academic tasks.
- The data clearly shows rising awareness, increasing usage, positive impact on grades, and growing trust in AI.
- With proper guidance and responsible usage, AI can significantly enhance student learning outcomes across India.



Q & A

- 1. DID YOU FIND ANY NEGATIVE IMPACTS OF AI ON LEARNING OR CREATIVITY?**
- 2. CAN THE RESULTS CHANGE OVER TIME AS AI TOOLS EVOLVE?**



“AI can boost your learning, but it should never replace your thinking - don’t let smart tools make you a weaker mind.”

THANKYOU

