

# AI Tool Usage by Indian College Students

Data Analytics Project

Under the Guidance  
Project Guide : Shamsheera



Presented By:

Manoj Kumar S  
AF05010140

# OVERVIEW

- INTRODUCTION
- PROBLEM STATEMENT
- DATASET OVERVIEW
- AI AWARENESS LEVELS ACROSS STUDENT STREAMS
- MOST USED AI TOOLS (INSIGHT)
- DAILY USAGE & USE CASES
- IMPACT ON ACADEMIC PERFORMANCE
- DO PROFESSORS ALLOW STUDENTS TO USE AI TOOLS?
- STREAM & STATE-LEVEL TRENDS
- TRUST LEVEL OF STUDENTS IN AI TOOLS
- RECOMMENDATIONS
- CONCLUSION



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

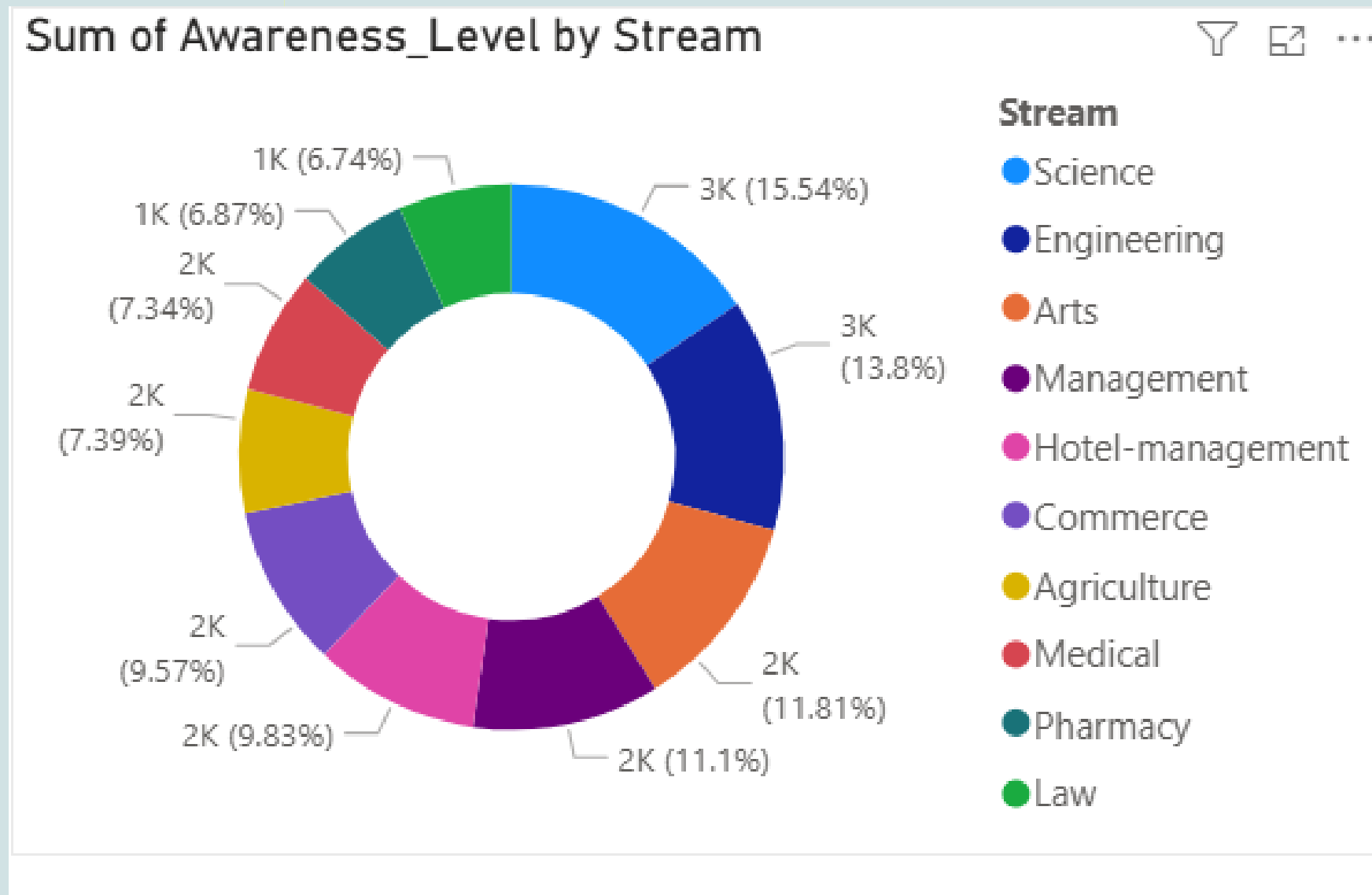


Figure - 1

- **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)

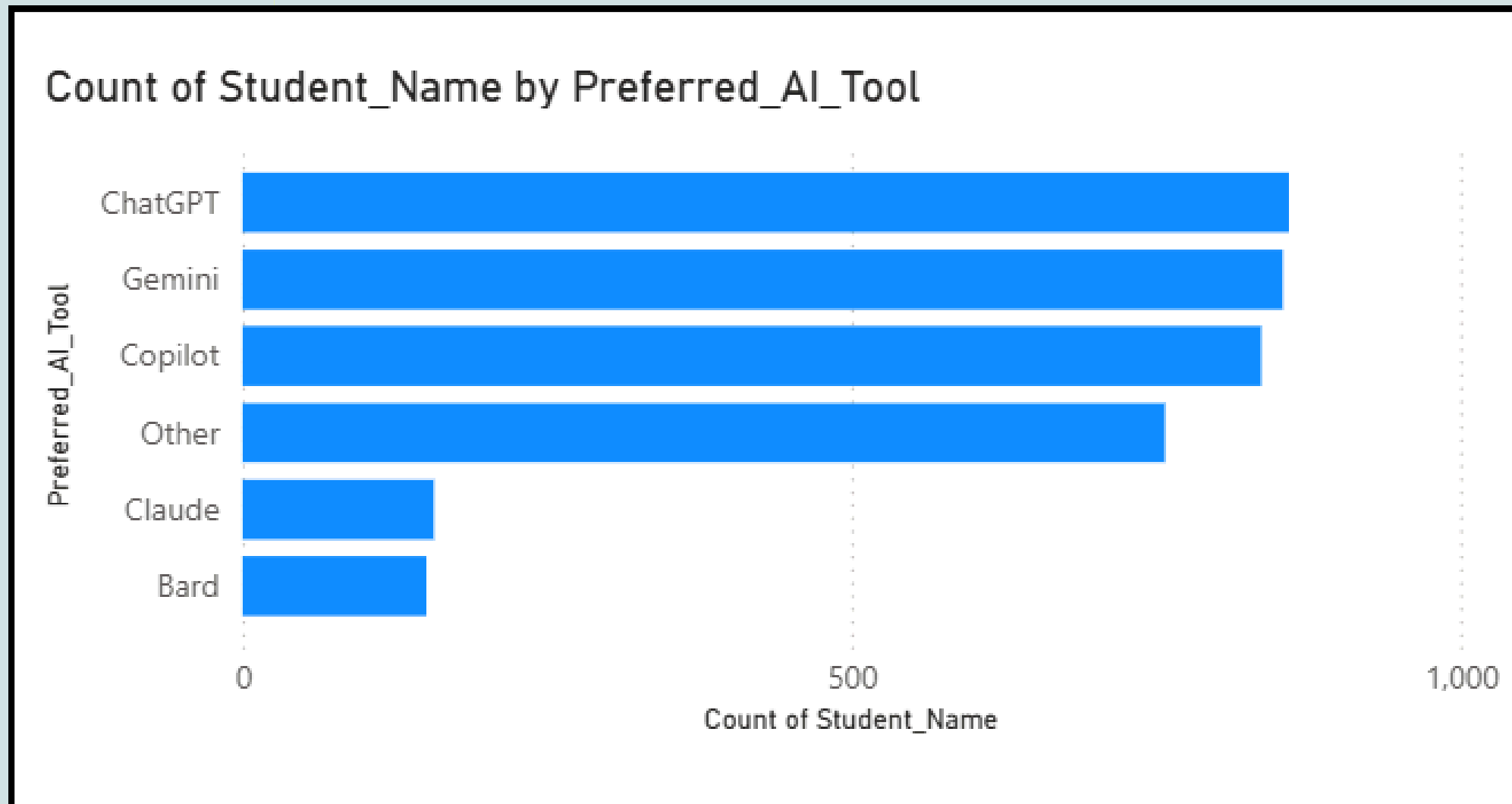


Figure - 2

- 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

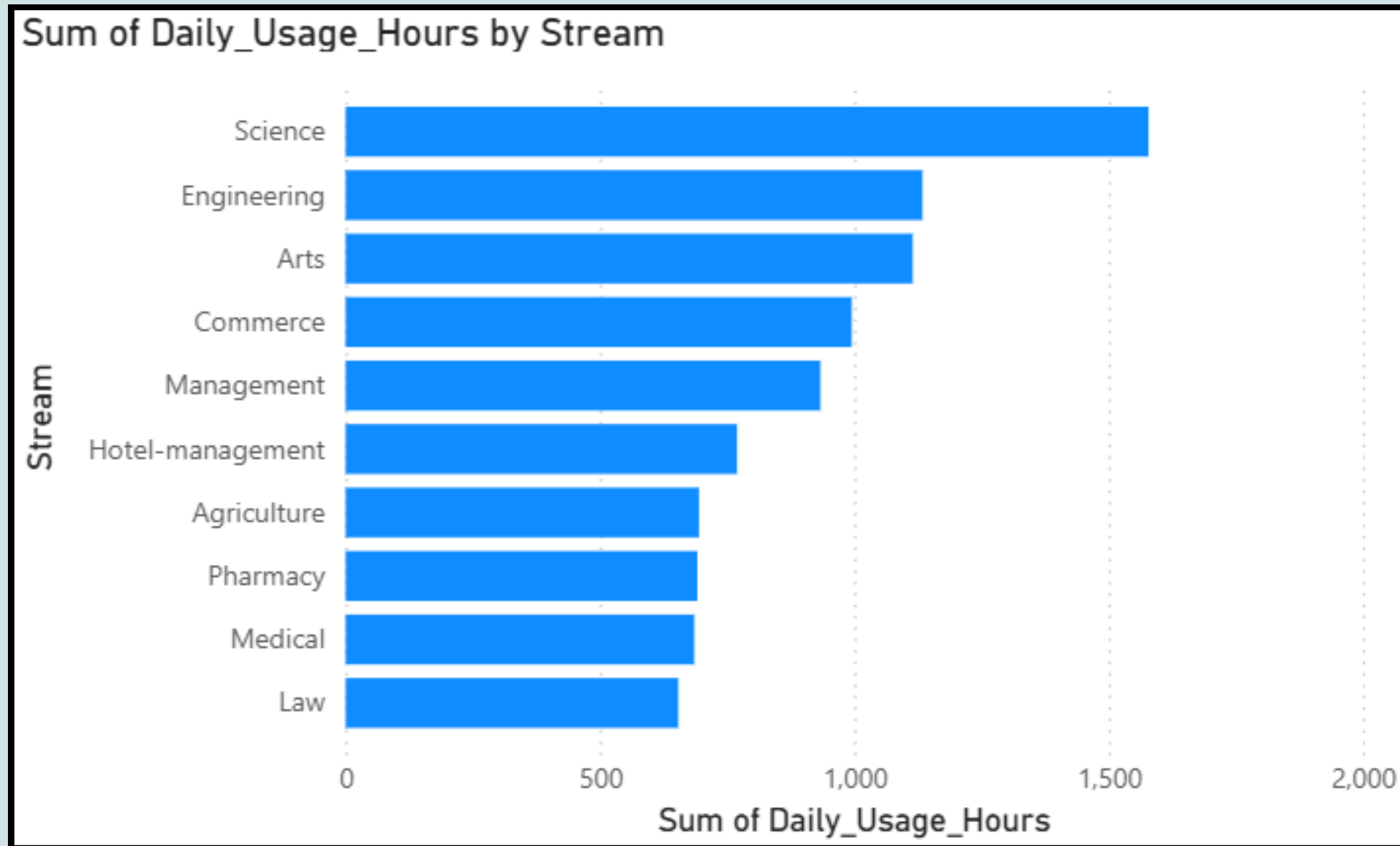


Figure - 3

## 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

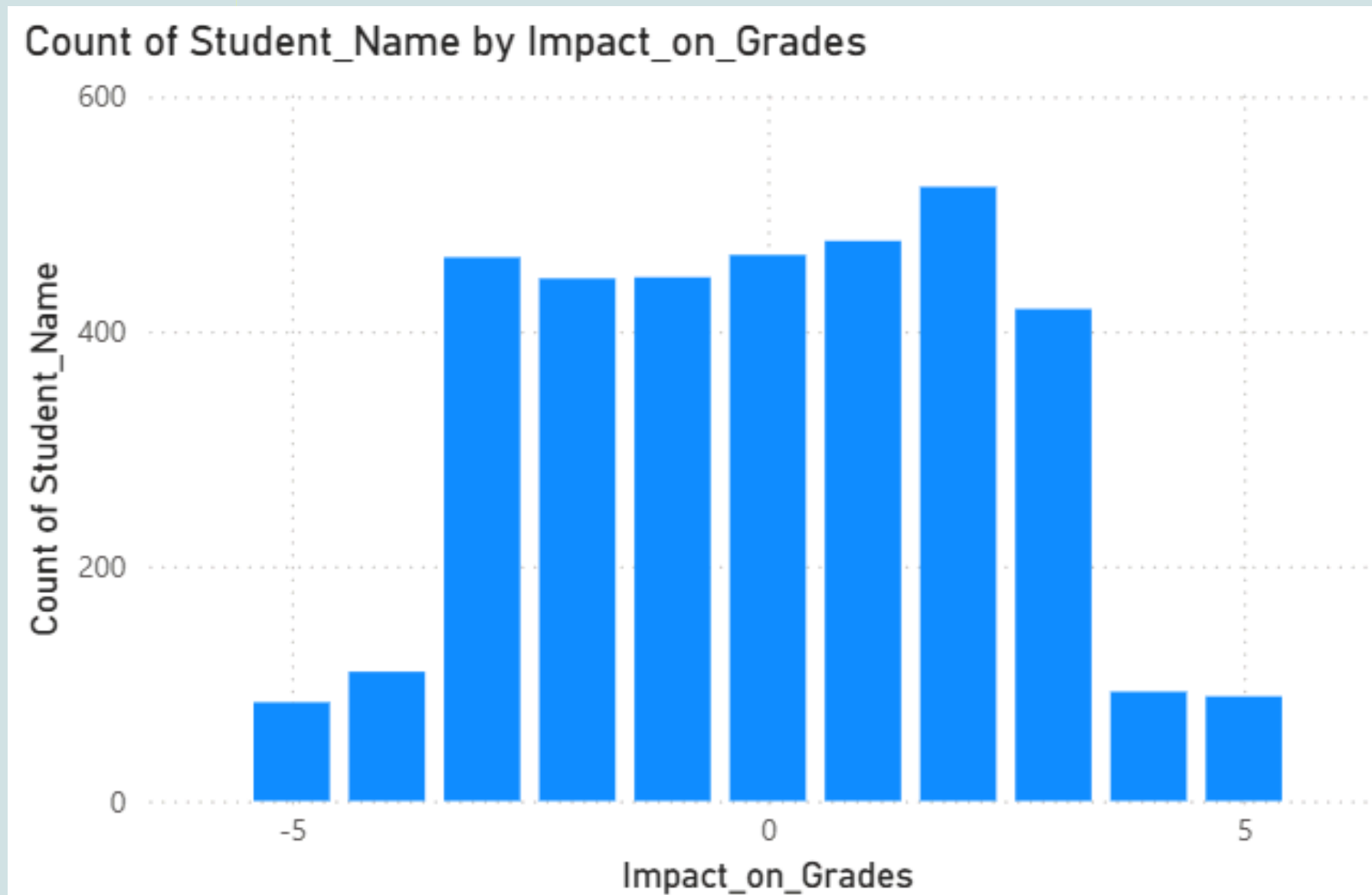


Figure - 4

- 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?

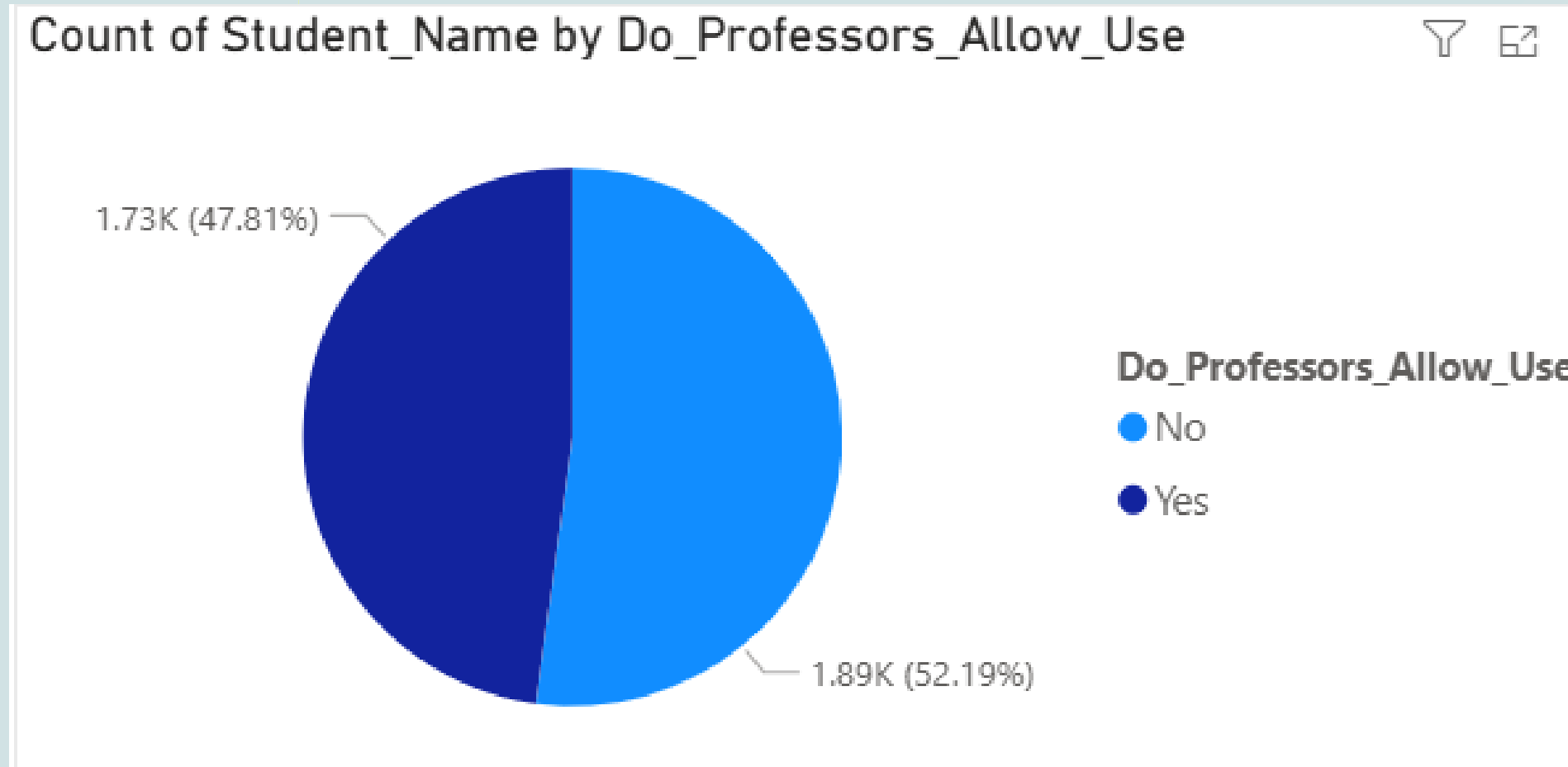


Figure - 5

- **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

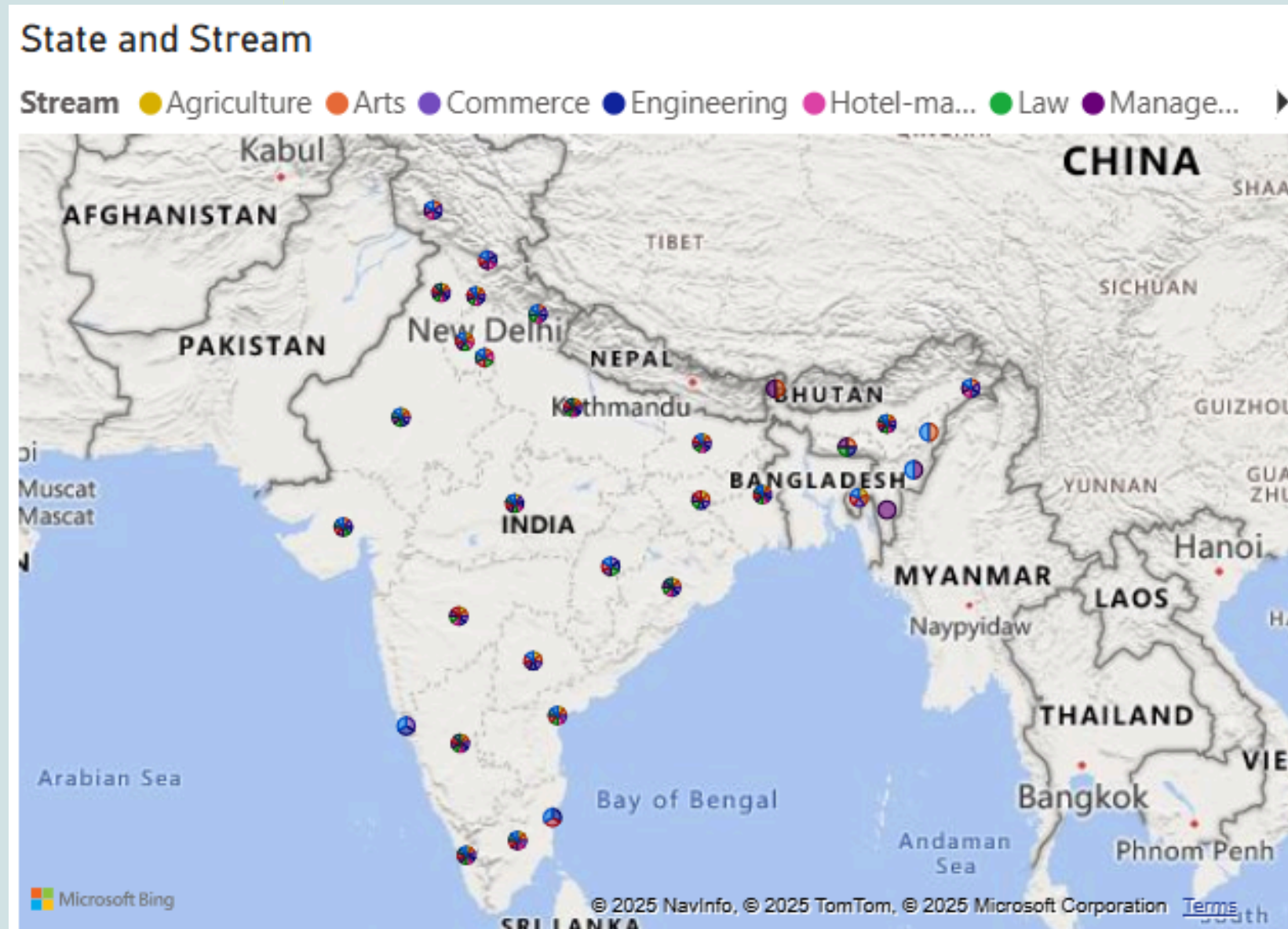


Figure - 6

- **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

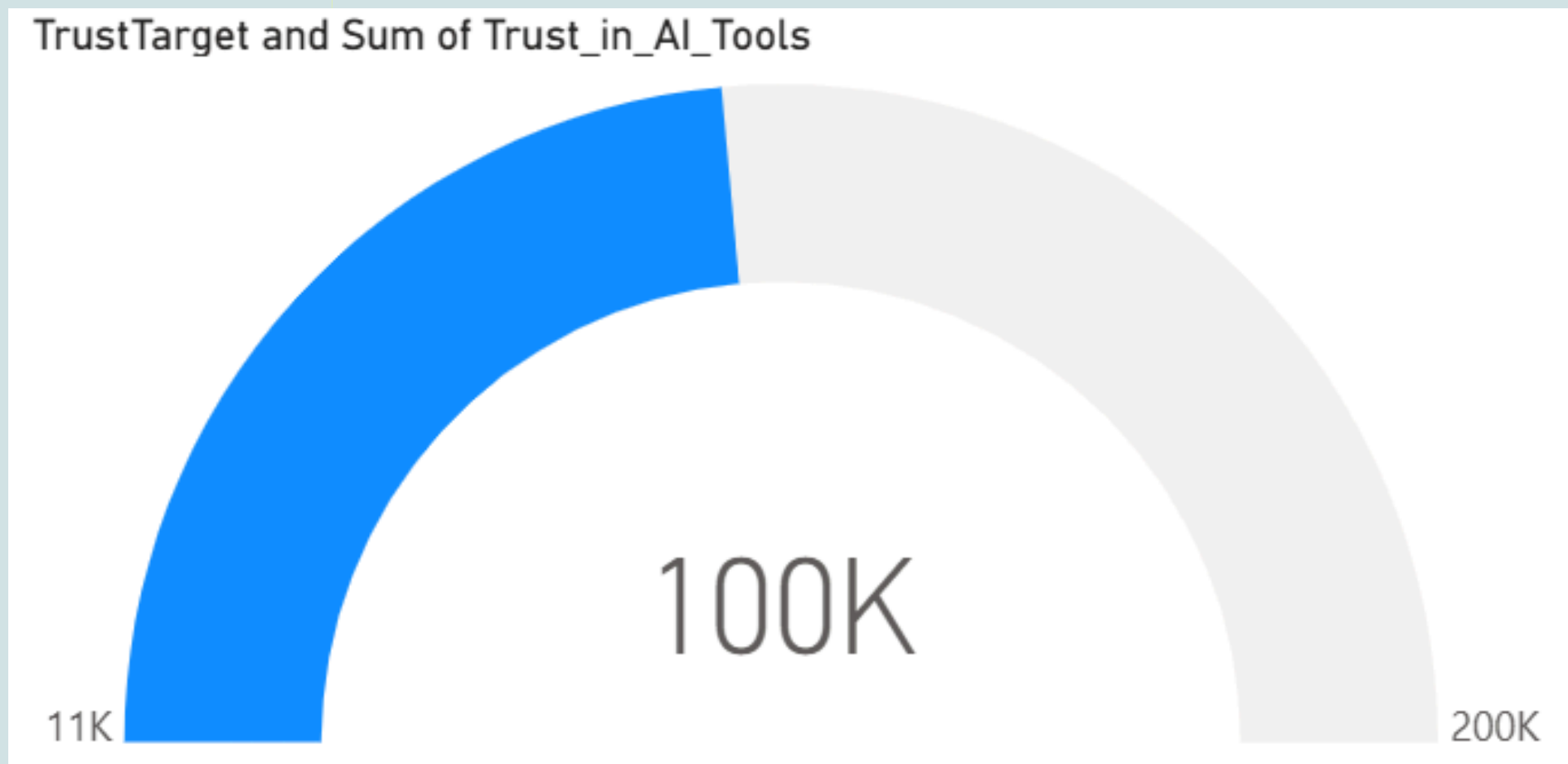


Figure - 7

- 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

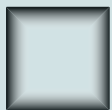
- **AI tools are transforming how Indian college students learn, study, and complete academic tasks.**
- **The data clearly shows rising awareness, increasing usage, positive impact on grades, and growing trust in AI.**
- **With proper guidance and responsible usage, AI can significantly enhance student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

