# Awareness and perceptions of generative Al usage for supporting learning

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#### Students' views

#### **HEPI Policy Note 51**

- More than half of students (53%) have used generative AI to help them with assessments.
  - The most common use is as an 'Al private tutor' (36%), helping to explain concepts.
- A 'digital divide' in Al use may be emerging. Nearly three-fifths of students from the most privileged backgrounds (58%) use generative Al for assessments, compared with just half (51%) from the least privileged backgrounds.
- Only a fifth of students (22%) are satisfied with the support they have received on AI. Most students (62%) are neutral or say they do not know.

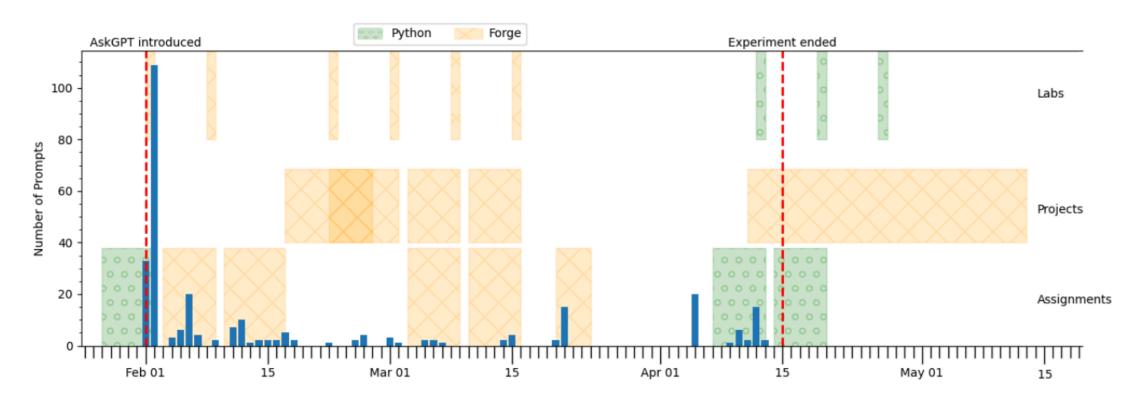


Figure 3: Number of student prompts to AskGPT per day, overlaid on an course schedule.

Student use of large language models

## Student responses

- P2: "I learn better through struggling to find an answer. If it comes too easy, it's hard for me to remember any information I've learned."
- P11: "I have a vitriolic hatred toward AI."

Student use of large language models

Table 2: Reasons students did not use AskGPT.

Reason	Count	% Responses
May interfere with learning	25	57 %
Fear of breaking course rules	12	27 %
Awkward UI	9	20 %
Concerns about logging	7	16 %
Worse than alternatives	6	14 %
Responses were not useful	6	14 %
Did not want to use	4	9 %
Fear of overuse	4	9 %
Installation issues	2	5 %
Concerns about AI	2	5 %
Did not use VS Code	1	2 %

Student use of large language models

#### **Educators' views**

#### Luleå University of Technology staff survey

- 76.12% of the university teachers surveyed expressed willingness to encourage their students to use generative AI ethically.
- Over 50% currently use generative AI in some form.

#### Texas A&M University

- 47% are somewhat to extremely comfortable with students using ChatGPT in courses.
- 64% of faculty and 73% of students have used ChatGPT.

## Purpose

- To inform generative AI-based pedagogical developments
  - University policy
  - Staff guidance and training
  - Integration into teaching and learning

#### Research themes

- Awareness and understanding
  - Common tools: ChatGPT, Microsoft Copilot
  - Embedded technology: Microsoft Word, Grammarly
- Usage patterns
  - Implicit versus explicit usage expectations

#### Research themes

- Trust and confidence
  - Ethical concerns
  - Domain expert knowledge
- Perceptions and anxiety
  - Breach of privacy
  - Confidence to ask questions
- Digital divide and equity of access
  - Accessibility and cost

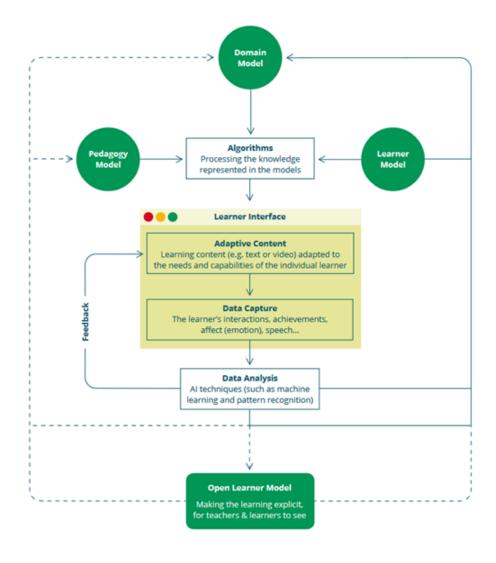
#### Research themes

- Guidance
  - Supplementing university instructors and tutors
- Learning and teaching strategies
  - Fostering generative Al culture

#### Some literature

- Generation gap
- Artificial intelligence anxiety scale
- Intelligent tutoring systems
- Technology Acceptance Model links to an user acceptance perspective:
  - perceived usefulness
  - perceived ease of use

**Figure 1**AlEd system showing a simplified picture of a typical model-based adaptive tutor.



### Possible questions

- Do you think that generative AI will **replace skills** or **knowledge** that you are learning (or have learnt) from university?
- Will generative Al usage undermine your learning experience?
- How satisfied are you with your university instructors?
- Would you rely on generative Al as a tutor for your university subjects?
- What concerns do you have about using generative AI?

## Logistics

- Multi-stage survey targetting students and educators
  - Current focus: statistics and data science
  - Future focus: ???

## **Participants**

*Currently targetting students from:* 

#### UK

University College London Coventry University

#### Australia

La Trobe University
Federation University Australia
Macquarie University

## **Timeline: Student survey**

- June: Pilot testing
- July August: Survey launch phase 1
  - UK term 3: postgraduates
  - Australia semester 2
- September December: Survey launch phase 2
  - UK term 1
- January April: Survey launch phase 3
  - UK term 2

## Timeline: Staff survey

- September: Pilot testing
- October December: Survey launch

## The end 👺