

## **Generative AI Student Perception and Experience Index (GEN-AI SPEX)**

Dear students of [University/College Name],

Welcome to the GEN-AI SPEX Survey! This survey aims to understand how students like you utilize and perceive Generative AI technologies, including but not limited to tools like ChatGPT. Your insights are crucial in highlighting the role of Generative AI in academic settings. Rest assured, your responses are confidential and will contribute significantly to our research. We value your participation and informed consent in this endeavor.

### **Part I – Demographic Information**

In this initial section, we gather essential demographic information that helps contextualize the responses in the later parts of the survey. Your input here will provide valuable insights into the diverse backgrounds and perspectives of students engaging with Generative AI. Please provide your age, gender, academic year, and college or department affiliation. All personal information will be treated strictly and used solely for research analysis.

- University Year Level (if applicable): \_\_\_\_\_
- College/School Affiliation: \_\_\_\_\_
- Department/Program: \_\_\_\_\_

#### **Edinburgh specific style:**

Are you an undergraduate or postgraduate student?

- Undergraduate (e.g. studying for a BSc or MMath)
- Postgraduate (e.g. studying for an MSc)

Which degree programme are you currently following

- Computational Applied Mathematics (MSc) - 1 Year (Full-time) (PTMSCCOMAM1F)
- ...
- **Other, please specify (open a new box to fill)**

## Part II – Tech Savviness and Generative AI Usage

This section aims to detect your general comfort and familiarity with technology, especially with Generative AI tools. Your responses will help us understand the level of tech savviness among students and how it relates to the adoption and use of Generative AI technologies in academic environments. Please indicate your level of familiarity with technology and Generative AI tools.

1. How familiar are you with technology usage in general?

- ☐ Extremely familiar
- ☐ Very Familiar
- ☐ Moderately familiar
- ☐ Slightly familiar
- ☐ Not familiar at all

2. How familiar are you with Generative AI tools?

- ☐ Extremely familiar
- ☐ Very Familiar
- ☐ Moderately familiar
- ☐ Slightly familiar
- ☐ Not familiar at all

**Directions:** Please answer the four questions below only if you select "Not familiar at all" to indicate your familiarity with Generative AI tools! **STILL CAN SEE THE FURTHER ITEMS!**

1. Why have you chosen not to use Generative AI tools?

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2. Are there any specific concerns or reservations (i.e., privacy and the use of personal data) you have about using Generative AI tools?

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3. Are there any specific features or capabilities you would like to see in Generative AI tools that might make you more inclined to use them in the future?

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4. If you have any additional comments or thoughts about Generative AI tools and their potential use, please share them.

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**Directions:** Please answer the two questions below only if you select one of these options "Extremely familiar - Very familiar - Moderately familiar - Slightly familiar" to indicate your familiarity with Generative AI tools!

1. Which Generative AI tools are you familiar with?

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2. (If you had an account or used alternative open-source tools) In what ways have you used Generative AI tools? (select all that apply)

- ☐ Asking technical questions
- ☐ Carrying on a conversation out of curiosity
- ☐ Asking general knowledge questions / advice
- ☐ Solving homework
- ☐ Checking solutions
- ☐ Asking quick questions when stuck on a problem
- ☐ Explaining concepts
- ☐ Writing essays
- ☐ Have not used
- ☐ Other (Please Specify)

### Part III – Perceptions and Perspectives on Generative AI

This part focuses on your perceptions and opinions regarding Generative AI. We want to understand your viewpoints on various aspects of Generative AI, including its benefits, challenges, and role in your academic life. Please read each pair of statements and indicate where your opinion falls on the continuum.

**Directions:** Below are pairs of contrasting statements about Generative AI. Please mark on the scale which statement you align with more. **The scale is the classical 5-scale likert one!**

#### FAMILIARITY

#	Item	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
1	I believe advancements in generative AI tools will significantly enhance my personal and academic growth.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	I prefer traditional search engines over Generative AI tools for information.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	I am confident in my ability to use Generative AI tools effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	Generative AI tools are essential in my self-learning process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	I am not concerned with staying updated on Generative AI advancements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	Responses from Generative AI tools often lack reliability and contextual appropriateness..	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	Generative AI tools are accessible and user-friendly, regardless of one's economic or technical background.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	I lack understanding of data security and privacy concerns in using Generative AI tools.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

9. Do you have any additional comments or opinions about familiarity with Generative AI tools?

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## BENEFITS AND CHALLENGES

#	Item	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
1	I believe Generative AI tools can help students save time.	o	o	o	o	o
2	I don't think Generative AI tools can help me write more efficiently.	o	o	o	o	o
3	I think Generative AI tools can provide me with personalized and immediate feedback.	o	o	o	o	o
4	Generative AI tools are as effective as human instructors in guiding coursework.	o	o	o	o	o
5	Using Generative AI tools boosts my development of transferable skills.	o	o	o	o	o
6	My use of Generative AI tools does not significantly involve critical thinking.	o	o	o	o	o
7	Generative AI tools provide little assistance in numerical and quantitative subjects.	o	o	o	o	o
8	Generative AI tools effectively overcome language barriers in education.	o	o	o	o	o
9	Using Generative AI for homework does not diminish the educational value.	o	o	o	o	o

10. Do you have any additional comments or opinions about the benefits and challenges of Generative AI tools?

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## FUTURE PREDICTIONS

#	Viewpoint A	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
1	The possible integration of Generative AI tools in higher education will have a negative impact on teaching and learning.	o	o	o	o	o
2	The use of Generative AI tools in academic settings should be allowed.	o	o	o	o	o
3	Generative AI tools could potentially substitute for some functions of human teachers and tutors.	o	o	o	o	o
4	It is unlikely that personal Generative AI assistants will become widespread.	o	o	o	o	o
5	Proficiency in Generative AI tools will be crucial for competitiveness in future job markets.	o	o	o	o	o
6	AI will dramatically influence work, society, and daily life in the next 5 years.	o	o	o	o	o

7. Do you have any additional future predictions about Generative AI tools?

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