[Intro: Survey Introduction Text]

The 2023-2024 academic year represents the first full year in which Generative Artificial Intelligence (GenAI) tools have been readily available for use across campus. The purpose of this survey is to obtain a pulse from our University of Maryland students concerning their familiarity with and use of GenAI tools for academic purposes. Responses to the survey will also be used to better understand the expectations students might have regarding UMD policy development, academic guidelines, recommended best practices, and the future impact that GenAI tools may have within a variety of academic contexts. Instructors will receive a separate survey with similar questions related to their knowledge and use of GenAI tools for instructional purposes.

In accordance with University policy, your responses are confidential; summarized responses will be used to identify and create resources and policies. The survey will collect your DirectoryID and UID, which will be used to link to demographic data, but no personally identifiable information will be released without your consent. Demographic data will only be reported by groups; individual responses will not be reported.

Ready to get started? Awesome! Go ahead and click the "next" arrow, below.

Block 1: How familiar are students with GenAI tools? If they are familiar with them, within what academic contexts are they being used?

Definitions and Use of Generative Artificial Intelligence
GenAI is a branch of artificial intelligence that focuses on the creation of new and original content, hence the use of the word "generative", as in, "to generate." Unlike traditional AI, which is typically used for specific tasks, GenAI aims to generate data that resembles the patterns found in the training data it learns from. Once trained, it can generate new data points that share similarities with the original data, yet are entirely novel. The output generated by these tools does not always provide accurate, nuanced, or comprehensive responses to the prompts provided by the user.

Please answer all questions based on your experience this academic year (2023-2024).

1. Based on this broad definition of GenAI, how would you describe your use of one or more of these (or similar) GenAI tools such as ChatGPT, Gemini, Claude, Bing AI, DALL-E, or Adobe Firefly in your academic work?
   a. I routinely incorporate these tools into many aspects of my daily academic work
   b. I routinely incorporate these tools into some aspects of my academic work
   c. I have experimented with using these tools, but do not use them routinely as part of my academic work
   d. I have never used these tools as part of my academic work

2. [Everybody plays] Broadly speaking, within which contexts do you typically use GenAI tools? [Select all that apply]
   a. Academic coursework (e.g., supplementing note-taking, creating study guides, or creating assignment drafts)
   b. Research assistance (e.g., informing code for data analysis or drafting a methods section)
   c. Career or internship searches (e.g., tailoring cover letters)
   d. Social media presence (e.g., creating graphics)
   e. Personal projects or interests (e.g., songwriting, website design, using for fun)
   f. Administrative work (e.g., creating a schedule based on project due dates)
   g. Other
   h. None of the above

3. [If 1c, d is selected] The following items are commonly cited questions related to the use of GenAI tools within an academic context. Please indicate which (if any) are related to your decision not to use GenAI tools as part of your academic work. [Please check: This is a concern, This is not a concern]
   a. How to appropriately cite GenAI tools within an academic context
   b. How to use GenAI while also maintaining the University's Code of Academic Conduct
   c. How to use GenAI without violating the policies established by my instructor
   d. How to avoid unintentionally sharing personally identifiable data
   e. How to ensure that sensitive data are not leaked by mistake (e.g., intellectual property or internal documents)
   f. How to balance the convenience of GenAI against using it as a substitute for my academic development
   g. How to authentically represent my voice related to the output generated by GenAI
   h. How to verify the accuracy of GenAI responses
   i. How to ensure the representativeness of images generated
   j. How to detect bias in GenAI responses as a result of training data
   k. I have other concerns, please specify:

4. [If 1c or d are selected] Would you like to learn more about how GenAI tools can be used as part of your academic life?
   a. Yes
   b. No
   c. Unsure

5. [If 4 a or c are selected] Which of the following training topics would you be most interested in when learning about GenAI? [Select all that apply]
   a. Understanding the benefits and risks of GenAI
   b. Assessing GenAI output for accuracy

     c.   Citing the use of GenAI

     d.   Writing effective prompts for GenAI tools

     e.   Using GenAI while respecting data privacy

     f.   Incorporating GenAI into teaching practices

     g.   Other

     h.   None of the above

6. [If 1a or b. are selected] Turning to your use of GenAI tools within academic contexts specifically, what motivates you to use GenAI tools? [Select all that apply]
   a. My peers use it
   b. My instructors have promoted their use
   c. It is an efficient way to get answers to my questions
   d. It helps me complete work faster
   e. It helps me solve problems
   f. It is easy to access on any device
   g. It is part of my field's academic culture (e.g., social media, news articles, general conversations)
   h. Other
   i. None of the above

7. [If 1a or b are selected] Have you used GenAI tools for the following academic practices? [Yes/No]
   a. Generating ideas (e.g., brainstorming ideas or developing an initial outline)
   b. Summarizing concepts (e.g., simply explaining a new term or complex reading)
   c. Elaborating on content (e.g., finding additional information on similar topics, or supplementing instruction)
   d. Creating new content (e.g., generating text, writing code, or generating images)
   e. Analyzing content (e.g., solving practice problems or analyzing complex texts)
   f. Improving content (e.g., debugging code or improving writing)
   g. Guiding actions (e.g., generating practice questions, creating study guides, or assisting with homework)
   h. Other, please specify:

8. [If 1a or b are selected] How have you used GenAI tools within academic contexts?
   a. With direction from an instructor (e.g., instructors encouraged us to use GenAI as part of an assignment or class activity)
   b. On my own, with no direction from an instructor (e.g., instructors did not explicitly incorporate the use of the tool as part of instructional practices)
   c. I have used GenAI tools both with and without an instructor's direction
   d. None of the above

9. [If 1a or b are selected] Overall, which statement below best characterizes how much you rely on the use of GenAI tools for your academic work?

a. GenAI tools are essential to completing my academic work
b. GenAI tools assist with my academic work
c. GenAI tools play a small role in my academic work but are not essential

10. [If 1 a,b selected] How do you typically verify the accuracy of information related to academic work that is generated by GenAI tools? [Select all that apply]
    a. I check facts against reliable external sources
    b. I use common sense/my knowledge to evaluate accuracy
    c. I do not verify the accuracy of AI-generated output
    d. I do not use AI for fact-based inquiries or text generation
    e. Other

11. [If 1a, b are selected] The following items are commonly cited questions related to the use of GenAI tools within an academic context. Please indicate which (if any) are related to your use of GenAI tools: [Please check: This is a concern, This is not a concern]
    a. How to appropriately cite the use of GenAI tools in an academic context
    b. How to use GenAI while also maintaining the University's Code of Academic Conduct
    c. How to use GenAI without violating the policies established by my instructor
    d. How to avoid unintentionally sharing personally identifiable data
    e. How to ensure that sensitive data are not leaked by mistake (e.g., intellectual property or internal documents)
    f. How to balance the convenience of GenAI against using it as a substitute for my own academic development
    g. How to authentically represent my own voice related to the output generated by GenAI
    h. How to verify the accuracy of GenAI responses
    i. How to ensure the representativeness of images generated
    j. How to detect bias in GenAI responses as a result of training data
    k. I have other concerns, please specify:

12. Broadly speaking, do you anticipate that your future use of GenAI tools within academic contexts will:
    a. Increase
    b. Stay the same
    c. Decrease
    d. Not applicable

13. [Everybody plays] Over the past academic year, my instructors have done the following in (all, some, or none) of my classes [All of my classes, Some of my classes, or None of my classes are the response options for each of the following questions]:
    a. Openly discussed GenAI tools like ChatGPT
    b. Encouraged the use of GenAI tools in certain cases (e.g., assignments)

c. Specified which uses of GenAI are allowed and which are not allowed
d. Completely prohibited the use of GenAI tools
e. Discussed plagiarism-related issues concerning the use of GenAI
f. Specified how to cite GenAI tools responsibly
g. Discussed potential biases in the use of GenAI tools
h. Discussed how GenAI can be integrated within the field of study
i. Included guidance in the syllabus about GenAI usage

14. [Everybody plays] How have you perceived GenAI when your instructors have incorporated it into their teaching practices (e.g., drafting slides, tailoring quiz questions)?
   a. Not useful
   b. Somewhat useful
   c. Very useful
   d. Extremely useful
   e. I am not aware of instructors using GenAI

15. [Everybody plays] Please indicate your agreement with the following statement: I understand how to appropriately use GenAI tools within my academic course work so that I maintain academic integrity standards.
   a. Strongly agree
   b. Somewhat agree
   c. Neither agree or disagree
   d. Somewhat disagree
   e. Strongly disagree

Teaching

16. Have you been in an instructional role (Teaching Assistant or Instructor of Record) this academic year (i.e., Fall 2023 or Spring 2024)?
   a. Yes
   b. No

17. [if 16a selected] Have you intentionally integrated GenAI tools as part of your teaching practices?
   a. Yes
   b. No
   c. Unsure

18. [if 17a selected] Has GenAI influenced any of the following elements of your teaching? [Yes, No, Not applicable to my instructional role]
   a. Creating assignments
   b. Creating assessments

     c. Creating lecture materials
     d. Creating course projects
     e. Creating study guides for students
     f. Creating questions for exams/quizzes
     g. Creating course outlines
     h. Writing
     i. Conducting research projects with students
     j. Working on graduate student admissions
     k. Doing departmental committee work
     l. Discussing GenAI's capacities and limitations
     m. Other

19. [if 17a is selected] Broadly speaking, how did students perceive your integration of GenAI tools in your instructional practices?
     a. Not useful
     b. Somewhat useful
     c. Very useful
     d. Extremely useful
     e. I'm not sure
     f. My students are unaware that GenAI tools were integrated into my instructional practices

20. [if 16a is selected] Broadly speaking, do you anticipate that your future use of GenAI tools for teaching will:
     a. Increase
     b. Stay the same
     c. Decrease
     d. Not applicable

Block 3: Help us gauge your understanding of how GenAI tools work, how they are currently trained, and the limitations of their use.

Administering campus-wide surveys, such as the one you are currently taking, can provide us, as administrators, with a high-level overview of your experiences. They can also provide an opportunity to share information, direct you to resources, and even educate students about emerging trends like ChatGPT.

Up for taking a quick quiz? If you have 30 more seconds to spare, we've prepared five multiple-choice questions designed to help us gauge your general understanding of the uses and limitations of GenAI tools.

Don't worry, you won't be graded! Answers will be provided at the end of the survey.

Don't want to take a quiz? Scroll to the bottom of the page and click the arrow to submit your survey responses.

21. Based on your current understanding, which of the following best describes the primary method used to train GenAI models like ChatGPT?
    a. Direct programming by human developers
    b. Learning from pre-defined sets of rules
    c. Learning from large amounts of existing text and data
    d. Randomly generating responses
    e. I do not know

22. GenAI can often produce creative and coherent text, but this does not necessarily mean it fully understands the content. What's the main reason for this?
    a. GenAI always understands the content it generates
    b. GenAI can mimic understanding, but it does not truly comprehend the content
    c. GenAI never generates creative or coherent text
    d. GenAI only mimics understanding when given specific commands
    e. I do not know

23. Which of the following statements is true regarding GenAI like ChatGPT and human-like consciousness?
    a. GenAI is aware and can experience emotions and consciousness like humans
    b. GenAI can simulate conversation as if it were a human, but it does not possess true human awareness
    c. GenAI cannot simulate human-like conversations
    d. GenAI can only generate random text and does not simulate human-like interactions
    e. I do not know

24. What is the primary source of data used to train popular GenAI models like ChatGPT?
    a. User-generated content from social media and online platforms
    b. Direct input from AI developers and subject matter experts during model creation
    c. Data generated by AI models themselves through self-improvement
    d. Specially created synthetic data to ensure a variety of training examples
    e. I do not know

25. How do GenAI tools differ from more traditional machine learning tools?
    a. GenAI tools focus primarily on data analysis, while machine learning tools encompass a broader range of applications.
    b. GenAI tools possess a broad applicability, allowing them to handle diverse tasks, while machine learning tools are designed for specific functions and tasks.

      c.   GenAI tools rely solely on pre-programmed algorithms, while machine learning tools improve through a data-driven learning process.

      d.   GenAI tools and machine learning are interchangeable terms, referring to the same set of technologies and methodologies.

      e.   I do not know

Thanks for completing that block of questions! In case you were wondering, the questions were largely generated by ChatGPT - don't worry, we double-checked! The last question was adapted from Stephen Wolfram (2023), "What Is ChatGPT Doing ... and Why Does It Work?," Stephen Wolfram Writings. writings.stephenwolfram.com/2023/02/what-is-chatgpt-doing-and-why-does-it-work.).

Block 4: Demographic Information

Upon survey completion, we will pull the following demographic variables based on students' directory IDs (and our IRB is consistent with collecting this type of information).

1. Class standing
2. Race/ethnicity
3. College of major
4. First-generation status

[Outro: Survey Close Text]

Thank you so much for your time! At the moment, GenAI tools have been approved for use only with data that are considered Low Risk. If you are interested in learning more about using GenAI, check out these resources from the TLTC and the Office of the President. Use this module to explore topics including the benefits and risks of GenAI, citing it correctly, verifying its accuracy, and generating effective prompts. Refer to this update from DIT for information on using GenAI while respecting privacy.

Interested in how you did on the quiz? Answers are included below!

26. Based on your current understanding, which of the following best describes the primary method used to train GenAI models like ChatGPT?
      a.   Direct programming by human developers
      b.   Learning from pre-defined sets of rules
      c.   Learning from large amounts of existing text and data
      d.   Randomly generating responses

27. GenAI can often produce creative and coherent text, but this does not necessarily mean it fully understands the content. What's the main reason for this?
    a. GenAI always understands the content it generates
    b. GenAI can mimic understanding, but it does not truly comprehend the content
    c. GenAI never generates creative or coherent text
    d. GenAI only mimics understanding when given specific commands

28. Which of the following statements is true regarding GenAI like ChatGPT and human-like consciousness?
    a. GenAI is aware and can experience emotions and consciousness like humans
    b. GenAI can simulate conversation as if it were a human, but it does not possess true human awareness
    c. GenAI cannot simulate human-like conversations
    d. GenAI can only generate random text and does not simulate human-like interactions

29. What is the primary source of data used to train popular GenAI models like ChatGPT?
    a. User-generated content from social media and online platforms
    b. Direct input from AI developers and subject matter experts during model creation
    c. Data generated by AI models themselves through self-improvement
    d. Specially created synthetic data to ensure a variety of training examples

30. How do GenAI tools differ from more traditional machine learning tools?
    a. GenAI tools focus primarily on data analysis, while machine learning tools encompass a broader range of applications.
    b. GenAI tools possess a broad applicability, allowing them to handle diverse tasks, while machine learning tools are designed for specific functions and tasks.
    c. GenAI tools rely solely on pre-programmed algorithms, while machine learning tools improve through a data-driven learning process.
    d. GenAI tools and machine learning are interchangeable terms, referring to the same set of technologies and methodologies.