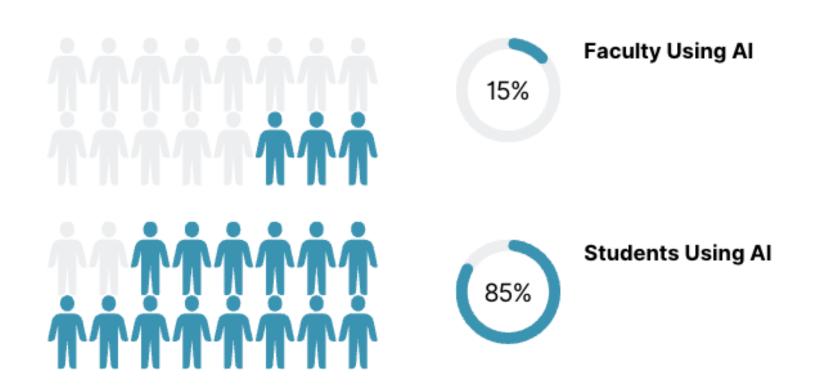


## Faculty Al use versus Student Al use



### Statistics on AI Skills in the Workforce

- Employer Prioritization of Al Skills
  - 75% of employers now prioritize Al-related skills, includes non-technical roles (SF Chronicle)
    - With more 60% prioritizing Al skills over experience when hiring (Microsoft 2024 World Trend Report)
- Faculty Belief in Al Literacy
  - 86% of faculty believe Al literacy improves job prospects (SF Chronicle)



The future workforce won't be about humans vs. Al. It will be about humans who know how to use Al.

### Embracing Al: Leading the Educational Evolution

- The question is no longer whether AI belongs in education
- The question is how we will shape its role





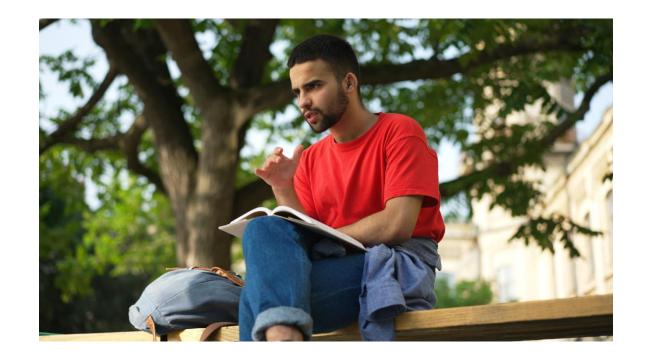
## **Navigating AI in Student Learning**

- Emily uses AI as a creative partner rather than a crutch.
- Al tools can enhance critical thinking and writing skills.
- The dilemma of Al vs. innovative
- Inst edu
- effective AI engagement Prom fosters student growth.

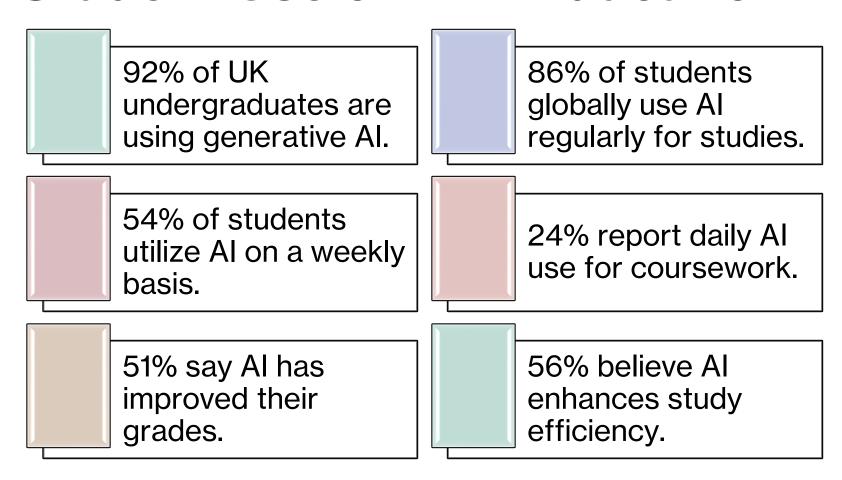


## Higher Education at a Crossroads

- Generative AI challenges traditional educational models.
- Memorization is not the ultimate goal of learning.
- Three responses to Al: Fear, Indifference, Engagement.
- Universities must adapt to Al's capabilities: Critical thinking and creativity should be prioritized.



### **Student Use of AI in Education**



## **Student Perspectives**

"I delete spaces after periods and purposely misspell words so teachers don't think my writing was created by ChatGPT."

"Me too. I also try not to use any sophisticated words, as the AI checkers flag that."



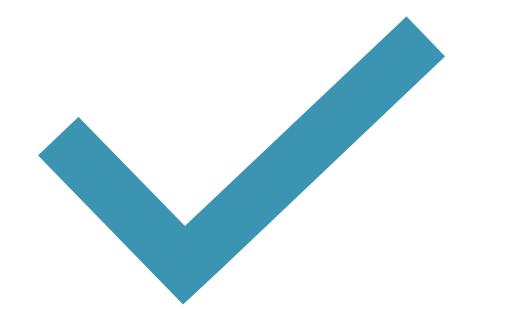


of students in our focus group reported using Al Checkers to make sure their own writing would not be marked as "written by Al."

# "Al is not the enemy of education – it's the catalyst for its evolution."

Instead of POLICING AI usage or creating conditions in which students feel the need to introduce errors into their own writing to prove it was created by a human, we instead taught them to critically, creatively, and responsibly engage with it?

What if we designed learning experiences where Al wasn't a shortcut, but a tool for deeper exploration?



## Is art real?\*

\*Thanks to Scott Birch in Research Technologies for creating and sharing these Art History images and Al-created images





The Changing Role of Faculty in the Al Era



## Faculty as Al-Enabled Mentors

#### Al for role-playing and skill demonstration





I'm a student in a course that has an activity where we're asked to engage in a role simulation exercise to interview prospective applicants. For this activity, I'll be taking on the role of the interviewer and you'll be taking on the role of the individual being interviewed. You'll take on a persona for the candidate given the provided resume information. Since this is a learning activity for me I'll need you to give mostly good answers, but also some not so good ones so that I have a more rounded assessment of the applicant and so it better simulates a realistic interview with a human. Don't break character under any circumstances.

You're Brittnie Sunny, applying to be a Mammography Tech. Here's your resume:









## AI Usage Among Higher Education Professionals

84% of professionals use AI in personal or professional lives (increase of 32 percent)

61% utilize Al for both personal and professional purposes (35% increase from last year)

Saved faculty up to 40% of course preparation time

65% of faculty analyze student data using Al

Only 14% of faculty feel confident using Al in teaching

### **Additional Al Resources @ IU**

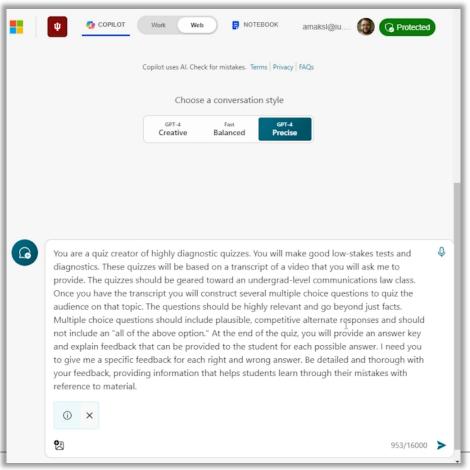




tinyurl.com/GenAlTeachingLearning

## Faculty as Al-Enabled Mentors

#### Al as a teaching assistant



Assist professors in grading

Improve student writing quality

Generate discussion prompts

Adapt course materials dynamically

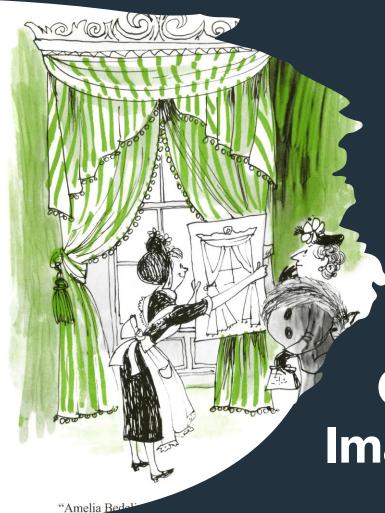
## Al as an Amplifier for Faculty, Not a Replacement

 Imagine if Al could handle the repetitive tasks—grading, content summarization, administrative burdens—so that faculty could spend more time on what truly matters: mentorship, discussion, and intellectual growth.

## Rethinking Learning and Assessment in an Al-Powered World

If AI can pass our tests, perhaps our tests needs to change...





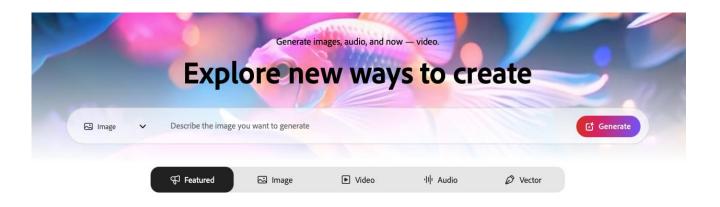


Challenge 1 | Creating Images with Adobe FireFly

- Accessing Firefly
- Demo of moves (basic and advanced)
- Select your Challenge Level
- Complete the Challenge

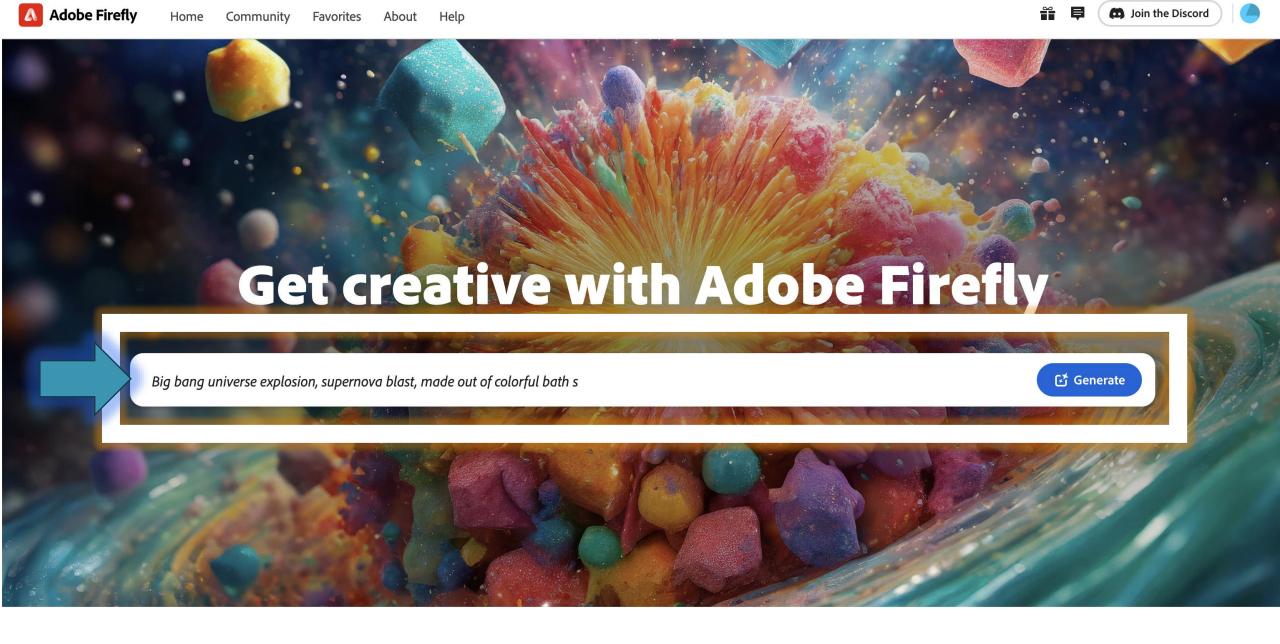


### https://firefly.adobe.com/







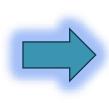


#### **Create with generative AI**

Experiment with the latest in generative AI and let us know what you think.

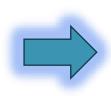
## Choose your Challenge Level





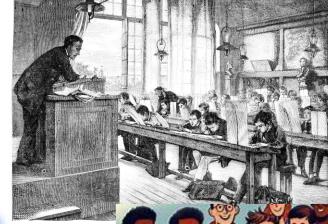
Level 1 | Create the Craziest Image you can think of





Level 2 | Try twinning one of these images





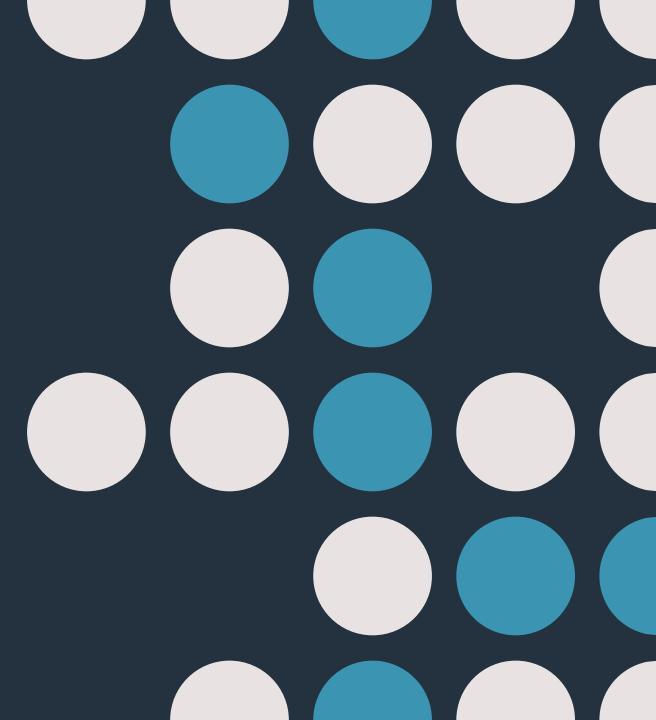




Level 3 | Create an image for a course promo poster

## What did you learn?

Al as a Tool for Curriculum Development and Institutional Support



## **IU's AI Course Modules**

#### Module Content

This module centers on prompt engineering, which involves creating instructions that shape and guide GenAl's output. The aim of this module and prompt engineering is to design precise prompts that achieve the desired results. Incorporating this module into your course can effectively help students use GenAl more intentionally and productively. It will prepare students to use GenAl on specific or general assignments.

#### Table of Contents

This module includes four content pages:

- Basics of Prompt Engineering | About this Module
   This page introduces the module, outlining the learning objectives and key topics covered throughout the module.
- Basics of Prompt Engineering | Introduction

This page emphasizes the importance of crafting specific, well-structured prompts to generate accurate and relevant AI outputs. It introduces key concepts like the difference between general and specific prompts, outlines strategies for effective prompting, and highlights the ability of multimodal AI tools to both consume and produce a variety of content, including text, images, and other data.

• Basics of Prompt Engineering | Tips for Effective Prompts

This page introduces the CORE principles of prompt engineering — Context, Output, Role, and Examples — which guide users in crafting specific and detailed prompts to achieve more accurate and relevant AI responses. It emphasizes the importance of combining these elements to give clear instructions and iterating on prompts to refine AI outputs for specific audiences and purposes.

• Basics of Prompt Engineering | Iteration and Revision

This page emphasizes that prompt engineering is an iterative process, where continuous refinement of prompts is key to improving the accuracy and relevance of AI outputs. It introduces the idea of treating AI as a digital collaborator, providing strategies for giving feedback and revising prompts to achieve better results, while highlighting the importance of being the human in control of the process.

#### Bringing it all together: Writing comprehensive prompts

To get the most out of AI, combine multiple elements of the CORE principles — Context, Output, Role, and Examples — into a more comprehensive prompt. This approach helps the AI "understand" what you need, who it's for, and how it should present the information.

For example, let's consider the following prompt and explore how the prompt includes all CORE elements.

[Role:] You are a new 8th-grade science teacher. [Context:] School starts in one week. [Output:] Write a short email [Context:] introducing yourself to parents. [Output:] This email should be professional but friendly; maybe use an emoji or two. Use some bullets or bolding to highlight key pieces of content and to make the email more readerfriendly. [Example:] Some info to include is that you graduated from Indiana University, you won the science fair when you were in 5th grade (that's why you are so into science!), and you love ghosthunting shows and trying out new pizza places. For teaching, you are very passionate about hands-on learning and building everyday connections.

In this example, each element of the CORE principles is included to ensure that the Al has all the necessary information to craft a tailored response:

- Role: Identifying the Al's perspective as a new 8th-grade science teacher helps to frame the tone and content of the email.
- Context: Providing context that the school year is about to start and that this email message is intended to introduce the teacher to parents helps frame the purpose of the task.
- Output: Specifying that the email should be professional but friendly defines the tone and style of the communication. Adding stylistic elements, like using bullets, bolding, and even emojis, helps define what should be essential elements of the email.
- Examples: Including personal details and teaching philosophy offers specific content that should be reflected in the email, helping the AI to create a more personalized and effective message.

#### Basics | Introduction

Imagine asking a person, "Tell me about business." The response would likely be broad and general, covering a wide range of topics without much depth.

But if you asked, "Can you explain the impact of digital transformation on modern businesses?" you'd get a more focused and detailed answer.

Now, take it a step further. Imagine asking, "Can you provide a three-paragraph analysis of how digital transformation has influenced customer experience strategies in the retail industry, with specific examples from companies like Amazon and Walmart?" With this prompt, the response would be even more targeted and precise, delivering exactly what you need.



The same principle applies to generative AI: the more specific and well-crafted your prompt, the more accurate and useful the output will be. In this module, you'll gain a practical understanding of prompt engineering, a skill that will enhance your academic work and prepare you for professional environments where AI tools are becoming essential. By learning to create effective prompts, you'll be able to generate outputs that are tailored to your specific needs, whether you're conducting research, solving complex problems, or creating content. This skill will set program in your studies.

What you'll learn

and equip you with a valuable asset for your future career.

In this module, you'll gain the foundational skills needed to effectively harness the power of generative AI through prompwill enable you to guide AI tools across various platforms — whether you're working with text-based models, image gener producing AI — to produce accurate, relevant, and creative outputs tailored to your specific needs.

By the end of this module, you will be able to:

· Identify the key elements of effective prompts, using the CORE (Context, Output, Role, Examples) framework, which

#### Basics | Tips for Effective Prompts

The level of specificity in your prompt directly affects the accuracy and relevance of the Al's response. When you provide a vague or general prompt, the Al is left to interpret your request broadly, often leading to outputs that are unfocused, lack the detail needed for practical use, and reflect potential bias present in the training data. On the other hand, detailed and specific prompts give the Al clear guidance, allowing it to hone in on exactly what you need. This results in more tailored and relevant responses that better meet your expectations.

Though there are many approaches to being specific and the detailed, and there's no one "right" way, the CORE principles outlined here — Context, Output, Role, and Examples — provide a structured approach that might serve as a useful mental shortcut as you craft prompts.

#### C

#### Context

Provide background information of the task at hand.

#### O

#### Output

Clearly and descriptively define what you want the AI to produce.

#### ŀ

#### Role

Assign the AI a specific identity or perspective, such as a professional role.

#### Ε

#### Example

Provide examples or reference points to guide the Al's response.

#### Designing a prompt using the CORE principles

Each part of the CORE principles of prompt engineering can be applied individually, and can also be combined together. Consider these tips:

#### Context: Setting the scene

- Define the task clearly, including the topic, purpose, and any necessary background information.
- Consider uploading additional documents that you want the Al tool to reference or that you think provide additional background information for the task.
- Specify the intended audience and their level of knowledge or familiarity with the

Click here for a Context example:

#### Using GenAl for Studying and Learning

Imagine you had a personal tutor available 24 hours a day, seven days a week, willing (and even eager) to help you study, struggle through tough concepts, quiz you before exams, and even create practice scenarios tailored just for you. Well, with generative AI, that's not just a fantasy - it's a reality. Whether you're trying to create the perfect set of practice questions or you're hoping to practice what you're learning in a simulated roleplaying scenario, GenAl can help. It's like having a study buddy who never gets tired, ready to work at your pace and help you practice applying your knowledge in meaningful ways.

Using GenAl in these ways isn't just about improving your performance in one course or one exam it's a tool that can support you as a lifelong learner. Whether it's breaking down difficult concepts or generating practice exercises, GenAl can help you situate what you're learning in a way that's meaningful to you, making the material more relevant and applicable to your own life. In this module, you'll learn how to use GenAl to summarize information, generate practice questions, and even simulate real-world scenarios, all tailored to your specific needs. By learning these skills, you'll not only enhance your academic success but also gain valuable tools that will support you in learning throughout your life - long after the course is over.

#### What you'll learn

By the end of this module you will be able to:

- Identify different ways in which generative AI can be used to aid in various evidence-supported studying and learning tasks and what tools and prompts could be used to enhance academic performance.
- Use GenAl tools to generate summaries, provide alternative explanations, and create study resources that will help to identify and explain key concepts.
- · Generate and interact with GenAl-driven role-playing scenarios and virtual tutors to apply concepts in course material to relevant contexts.
- · Evaluate the truthfulness of GenAl output and apply strategies to help ensure GenAl tutoring sessions provide the most relevant and accurate

The goal of this module is to help you independently apply basic GenAl skills to any studying or learning task to help improve your academic success.

#### How this module is organized

This module is structured around four key evidence-based studying and learning strategies, each presented as a page here on Canvas.

- Test preparation and practice questions. Discover how to use AI to create questions that help you self-assess and pinpoint areas for improvement.
- Summary and alternative explanations. Learn how AI can simplify complex ideas and provide different ways to understand them.
- Relating course content to your experiences, interests, and goals. Explore how AI can help you connect new concepts to what's important and relevant in your life.
- Simulations and role-playing. Apply your learning in real-world scenarios with Al-generated simulations.
- GenAl as a thoughtful tutor and guide. Learn how to use GenAl as a personalized tutor that helps you deepen your understanding by guiding you through a series of thoughtful questions.

#### Test Preparation and Practice Questions

#### Retrieval: The Secret Study Ingredient

One of the most effective learning strategies you can use to enhance your memory is retrieval practice. Simply retrieving information improves long term learning and memory. In the classic study conducted by Roediger and Karpicke (2006), college students read a brief passage and then reread the passage or engaged in retrieval practice (i.e., writing down everything they remember about the passage). After a one-week delay, memory performance was greater under the retrieval practice condition. Retrieval Practice has been studied extensively using a variety of materials consistently indicating this is one of the best ways to strengthen memory (e.g., Agarwal, Nunes & Blunt 2021, Carpenter, 2023, Karpicke & Roediger, 2008, Nickl, & Bäuml, 2023, Roediger & Butler, 2011 to name just a few examples).

#### What is Retrieval?

To begin, you study, view, listen or read through the material you want to learn and then you test yourself on the material. Your goal is to gauge how well you can remember what you have been studying. By bringing the material to mind using "practice tests," you determine how strong your memory is for the material. Often, students misiudge how well they

can retrieve information because the Summary and Alternative Explanations experience the illusion of knowing be Truly practicing retrieval is the only remember rather than just having a fe Using AI to help with reading

Generative AI can assist in this proce of practice guizzes guickly. You need feedback. When using this method, it check the accuracy of the recall. Brin and demonstrates learning. Below ar you can create quizzes quickly using

format, and difficulty of the practice create prompts that will guide GenAl

- Context: Using the reading, cours You may want to share in you
- others' intellectual property
- Output: Describe the type of pra Specify formats like multiple
- . Be sure to request the tool n
- Learning Level: Describe where a For example mention if you

the answers first, but rather that you Extensive research has documented that prior knowledge assists reading comprehension (For a review, see Hattan, Alexander, & Lupo, 2023). It is important to activate your prior knowledge and connect it to what you are reading. You can do this in several ways, Begin by spending a moment thinking about the context related to your reading. Noting that you are reading an essay activates a certain structure in your memory. Think about the way the text is organized. Think about what you may already know about this topic. Now you are ready to actively read.

Have you read material for a course and then found you are having difficulty understanding or determining what's important? If so, GenAl can help.

GenAl can be used to break down a reading into prose that is easier to understand and can help you to process the material so you can identify the

key points of the reading. Using AI to make your reading active is a good strategy to ensure you are gaining what you should from your reading

Whether you're tackling a dense philosophy text or a complex scientific article, the following four-phase approach can be applied to any reading. Creating prompts to i First, break down the text using key vocabulary and summaries. Then, identify and understand major themes. Next, look for patterns or recurring concepts. Finally, test your understanding using Al-generated questions.

Note that these steps are human-centered, asking you to do work before asking for assistance from GenAl.



#### develop connect Simulations and role-playing

Interacting with partners—whether it's a professor, a mentor, or a peer—can be one of the most valuable ways to learn, especially when you are asked to apply knowledge and skills in. These interactions push you to apply your knowledge, think critically, and refine your skills based on real-time feedback. However, those partners aren't available 24/7. Their time is limited. And sometimes you might feel hesitant to practice with another person when you're just first learning a skill. That's where generative AI can come in.

With GenAl, you can create interactive, simulated scenarios that allow you to engage in meaningful practice any time you need it. What makes these simulations even more powerful is the opportunity for metacognitive reflection—the process of thinking about how you're learning, reflecting deeply on how you approached the task, what decisions you made, and how you responded to feedback. Then trying again, experimenting with different approaches in a safe environment.

What's more, you can design your Al partner to do more than just play a role and practice; you can ask it to provide feedback on your decisions and actions. The real value of these simulations comes from how well you define the role for the AI, the information it has, and the specific task you ask it to complete. But beyond running the simulation, your reflection on the experience—how you engaged with the AI, how the context shaped the simulation, and how you can improve-plays a critical role in reinforcing what you've learned.

Using GenAl as an interaction partner is not a replacement for practicing with a human, of course, But GenAl-powered simulations offer a safe, lowstakes environment where you can practice applying what you've learned, solve complex problems, and explore decision-making strategies-all without the fear of real-world consequences. What's more, these experiences are endlessly adaptable, meaning you can revisit them again and again, refining your approach and testing out different strategies.

#### Safe and Ethical Us

When testing out these prompt that includes some data protectio

Phase 1

Vocab and Summary

Using the Microsoft Edge brow such as web pages and PDFs.

Using other tools may carry wit decide to use a non-IU-support tools any university data F.

Also, note that you should not s

#### **GenAl Simulation Examples**

Job Interview Practice: Simulate a job interview with AI as the interviewer, asking specific questions and offering feedback on your

Negotiation Practice: Negotiate the terms of a contract with AI as a tough business partner, helping you refine your persuasive tactics and balancing competing demands.

Crisis Management Simulation: Respond to a public relations crisis where AI simulates media inquiries and customer reactions, helping you practice damage control and strategic messaging.

Historical Event Simulation: Take on the role of a leader during a key historical event, with AI simulating the pressures and decisions, helping you understand why historical choices were made.

Clinical Diagnosis Simulation: Take on the role of a clinician assessing a virtual patient with Al-generated symptoms, allowing you to practice diagnosing and proposing treatment plans.

Historical Event Analysis: Explore a historical event, like the Treaty of Versailles, and predict outcomes based on decisions you make.

Customer Service Role-Play: Handle a customer complaint, with AI playing the customer and providing feedback on your response.

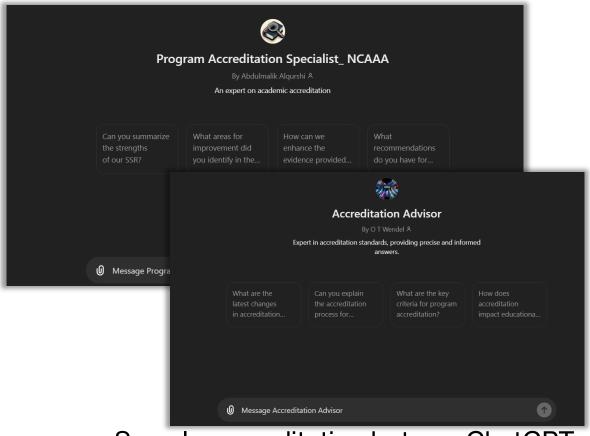
### **Course content creation**

- GenAl can assist in drafting course content, discussion prompts, or study guides, helping faculty create materials more quickly and efficiently.
- It can also help faculty revise content to adjust format
  - Example: Lecture notes → PowerPoint,
     video transcript → Canvas page, etc.



Al as a Tool for Curriculum Development and Institutional Support

## Institutional assessment and reporting



Sample accreditation bots on ChatGPT

- Al can analyze and synthesize large, unstructured sets of data/documents.
- GenAl can help in the drafting of self-study reports.

## From 2 years to 29 seconds...

## **Creating an MBA program structure**

I'd like you to take the role of a curriculum advisor for a top tier US MBA program from a leading public university. MBA degrees require learning a lot of classic lessons from multiple business topics and equipping graduates to deal with their future career responsibilities as they advance through management and executive ranks.

Consider that the target audience is part-time MBA students in an online program who have 5-20 years of experience and some have domain-specific advanced degrees in other fields. If we assume that the degree is 54 total credit hours and 18 of those are in three, 6-credit blocks called MBA Core1, Core2, and Core3. I want you to advise which topics and in what proportion should be in each of the Core1, Core2, and Core3 courses.



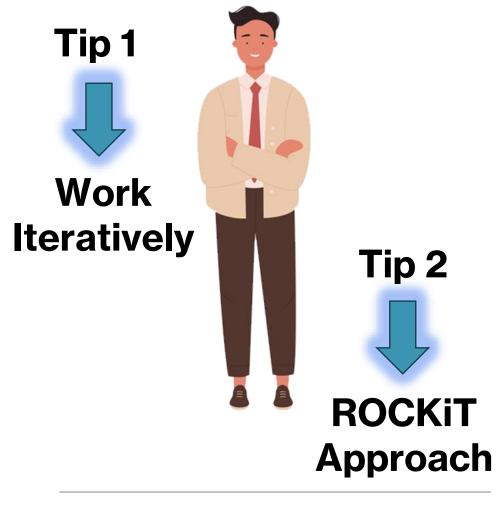
#### Thought for 29 seconds ~

As a curriculum advisor for a top-tier MBA program catering to experienced professionals in a part-time online format, it's crucial to design a core curriculum that builds on their experience while equipping them with advanced business knowledge and leadership skills. Given the 18 credits allocated to the MBA Core—divided into three 6-credit courses (Core1, Core2, Core3)—I recommend the following distribution of topics and proportions:

#### MBA Core1: Foundational Business Concepts (6 Credits)

- 1. Financial Accounting (1.5 Credits, 25%)
  - Description: Introduce the principles of financial accounting, including understanding financial statements, accounting cycles, and reporting standards.
  - Rationale: Provides essential skills for interpreting financial data, crucial for all managerial roles.
- 2. Data Analysis and Statistics (1.5 Credits, 25%)
  - Description: Cover statistical methods, data interpretation, probability, and decisionmaking models.
  - Rationale: Equips students with analytical tools necessary for data-driven decisionmaking.

## It's all about Prompt Design



## ROCKIT

- Role: assign it a role so it operates with a particular perspective or approach
- Objective (or Outcome): describe your goals or objectives: i.e., what you need help doing
- Context: offer relevant context for the role, goal, and/or task
- Knowledge/info: provide additional information, attachments, or content so the LLM has more information with which to work
- Task: tell it what to generate and offer specific steps/guides as appropriate

## **Example ROCKiT**

[Role] You are an instructional designer / curriculum consultant who helps teachers create meaningful and effective assignments that intersect with course learning outcomes.

[Objective] Help me create a multimedia assignment that uses generative AI in iterative ways and allows students to demonstrate knowledge and understanding of course content. The assignment should enable students to meet the specific learning outcome.

[Context] Students are currently working to understand the rhetorical nature of monuments, exploring them through analysis and socio-cultural frameworks.

[Knowledge/info] The learning outcome I want them to engage in this assignment to develop critical thinking skills by applying one of the following 3 concepts from our course reading: The <u>Traditional</u>, <u>Figurative Monument</u> which are monuments that typically represent key figures (leaders, heroes) from a group, nation, culture, etc. designed to offer inspiration or stand for particular cherished values; the <u>Avant-Garde Counter-Monument</u>, which works counter to the traditional frame and offers provocation as a monument rather than consolation or inspiration; and the <u>Site as Monument</u>, which situates actual sites (geographies/locations) of events as monuments (or memorials).

**[Task]** Offer three possible assignment ideas for this assignment. Once you generate the list, wait for my response to select one of the three prompts before producing the full text of the assignment guide. Be sure to include assessment criteria for the assignment

## Al to Support Student Success through Personalized Learning & Support

# **Student Perspectives**

"Teachers should look at GenAl as an enhancement tool."

"These tools can reduce barriers to creativity."

"I use ChatGPT to create practice questions for my exams."



"More professors are starting to help us understand how to use it and that benefits our education."





# Traditional Assessments are no Longer Enough

- Students should be assessed on their ability to analyze, refine, and improve Al-generated content.
- Al-inclusive assessments increased student engagement by 30%
- 58% acknowledged using ChatGPT
- 38% admitted using it without teacher consent

# **Custom course-specific chatbots**



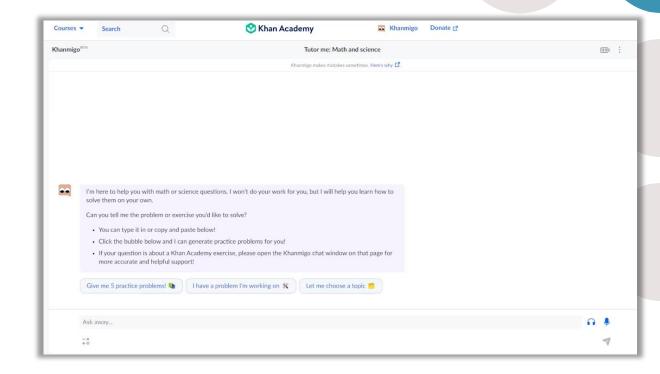
Provide students with course specific-info, integrated into Canvas.



Pointed to specific, trusted sources of information (including Canvas)



Programmed to guide students to learn concepts, not tell them answers

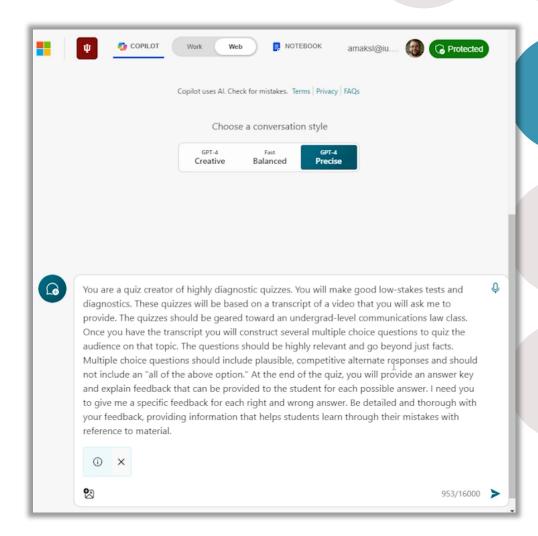


Khan Academy Khanmigo

Al to Support Student Success through Personalized Learning & Support

### **Formative assessments**

- Frequent, low-stakes formative assessment is effective but takes significant time to create.
- GenAl can help faculty create practice questions/problems, with deep feedback to help students learn.

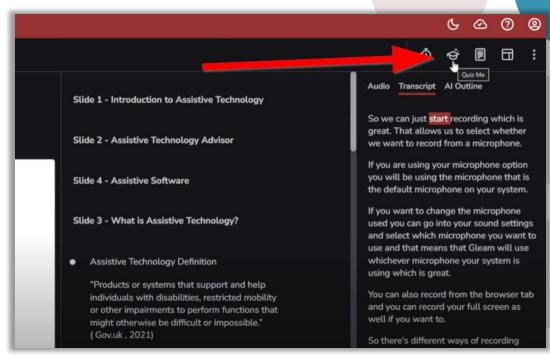


IUS Prof. Adam Maksl

Al to Support Student Success through Personalized Learning & Support

### **Formative assessments**

- Frequent, low-stakes formative assessment is effective but takes significant time to create.
- GenAl can help faculty create practice questions/problems, with deep feedback to help students learn.
- Some platforms allows students to create practice questions from course material.



Assistive notetaker software Glean

# Streamline and enhance grading process

**1.Answer Grouping**: Automatically group similar student answers together. Instructors grade a group of similar responses at once

**2. Al-Assisted Grading**: Multiple-choice or fill-in-the-blank, recognizes patterns and common answers. Speed and consistency of grading.

# **Automated student support**

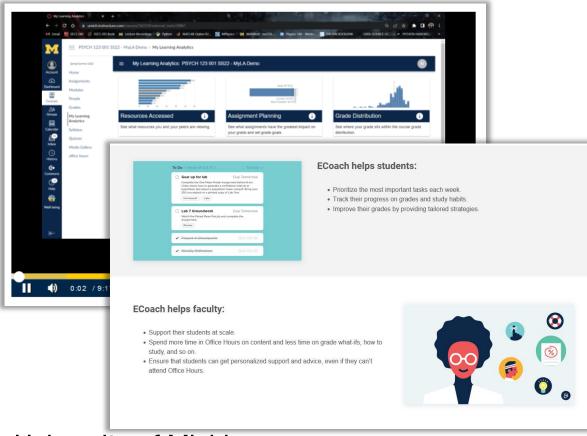
- Al-powered chatbots can offer 24/7 support for non-course academic support,
  - Writing Support
  - Supplemental Instruction
- Chatbots can assist in navigating administrative processes, reducing barriers to success.



Georgia State "Pounce"

Al to Support Student Success through Personalized Learning

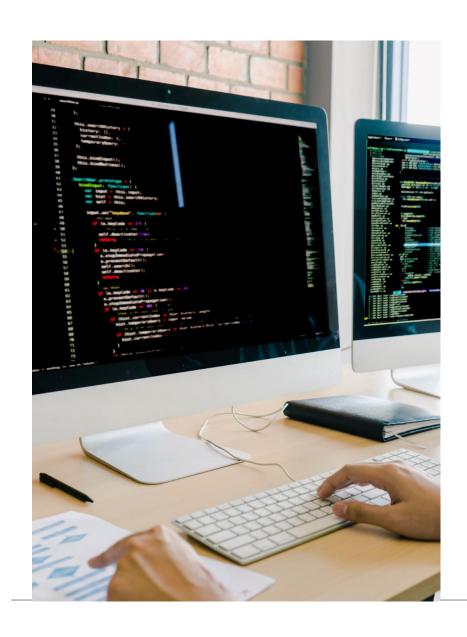
# Using AI to recognize student needs



- Al can analyze student data and help identify at-risk students, enabling support and intervention
- Empower students by contextualizing that data and through automated coaching help them succeed.

University of Michigan

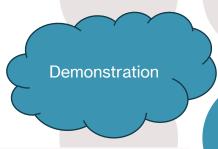
# Ais Role in Scholarship & Research

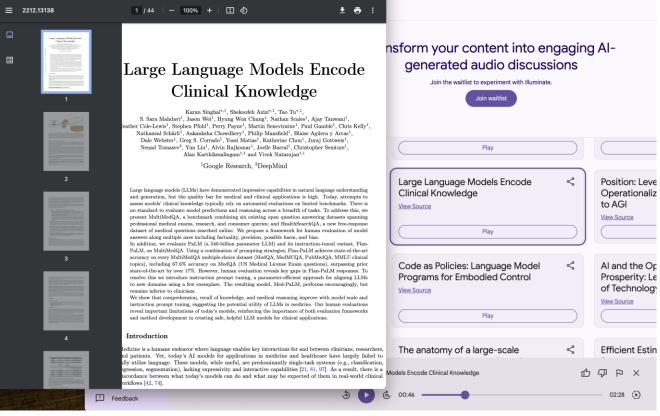


# Al is Reshaping Knowledge Creation and Dissemination

- Reduction in Literature Review Time
- Enhanced Productivity in Technical Fields
- Summaries of Research Meetings
- Dissemination to General Audiences and Media

# Turn papers into podcasts





## Making presentations from documents

PATHWAYS TO INCLUSIVE COMPUTATIONAL EDUCATION

### Abstract:

This study investigates the integration of computational thinking (CT) into early elementary literacy, focusing on kindergarten to second grade students, using multiple representations to understand their ideas of CT. Through clinical task-based interviews with 12 students, we found that concrete manipulatives, pictorial/graphical representations, and language-based strategies were key to facilitating CT comprehension. The findings indicate no significant gender differences in CT engagement, and instead we need to emphasize the need for inclusive, multirepresentational teaching methods in early education. By using multiple representations, we may be able to nurture early STEM interest and confidence in computer science and related fields.

### Introduction to the Problem

### Importance of BPC in CS Education

Computer science (CS) education is essential for preparing students for the future workforce (Author, 2020). However, CS education lacks inclusivity and excludes certain groups of students, especially historically underrepresented minorities and females (Code et al., 2023). This gap harms the diversity and quality of the CS workforce, and the representation and inclusion of women's perspectives and needs in technology. This exclusion also reduces the potential for innovation and creativity from diverse perspectives in the field (Tissenbaum et al., 2021; Shah & Yadav, 2023).

Addressing the lack of diversity in CS education is not merely a matter of social justice; it is a necessity for fostering innovation and addressing complex global challenges. Diverse teams bring a range of viewpoints and problem-solving approaches, which are invaluable in tackling multifaceted problems in technology and beyond (National Science Board, 2020). Without proactive measures to broaden participation, we risk perpetuating homogeneity within the tech

### Create a presentation from Special Issue - JRTE (6).docx

Here's the outline for the presentation I'm generating:

- Abstract
- Introduction
- Research Ouestions
- Inclusivity in Computer Science Education
- Computer Science Education in Early Childhood
- Materials and Methods
- Description of Tasks
- Data Analysis
- Theoretical Framework
- Results
- Discussion
- Implications

Al-generated content may be incorrect





Here's a draft of Special Issue - JRTE (6).docx as a presentation.

I've drafted 33 slides and made some changes based on your doc:

- Included speaker notes containing additional details
- Added images to make your deck more engaging
- Applied layouts to organize slides

You can also use **Designer** for adjusting layouts.

Al-generated content may be incorrect







Al to Support Student Success through Personalized Learning & Support

# **Drafting personalized feedback**

I will now give you some general observations and you will create

short 1-3 sentence comments in my conversati based on the assignment in share with stu comments sta positive, inclu suggestions,

students to in

new comment. some problems with audio normalization. nice nat sound. avoid the "when asked" transition into acts, use declarative statements to paraphrase what a source says, try to add source info.



### Copilot

"Good start on your audio postcard! There were some issues with audio normalization, so make sure to keep the volume consistent throughout your piece. The natural sound you incorporated was a nice touch! For transitions into acts, try to avoid 'when asked' and instead use declarative statements to paraphrase what your source says. This can make the narrative flow more smoothly. Also, don't forget to include some information about your sources. Keep going, you're doing great!"

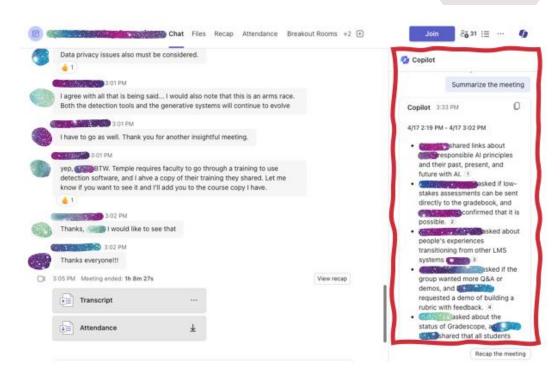
- GenAl can help faculty more quickly draft communications and feedback to students.
- The drafts can reference course context and assignment requirements.
- Move from general comment banks to personalized feedback at scale.

**IUS Prof. Adam Maksl** 

Al to Enhance Faculty Work

## **Automating routine tasks**

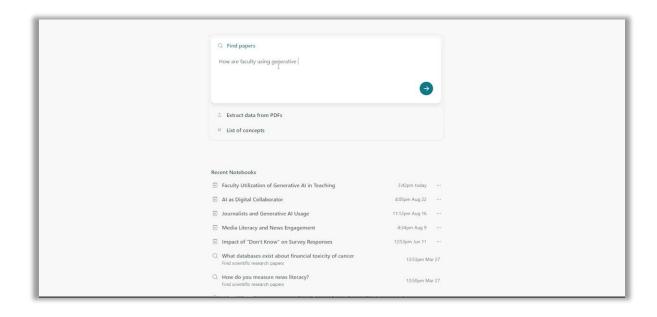
- GenAl can be used to lighten the load in tasks from notetaking, agenda creation, task management, and other timeconsuming tasks
- Frees faculty to engage more with teaching and research.



Copilot for Microsoft 365

**Demonstration** 

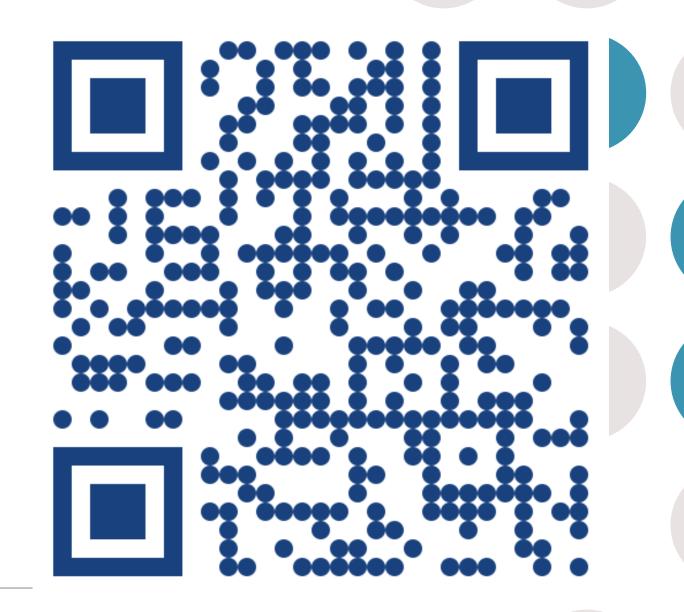
## Research assistance



- GenAl can be to find, sort, and organize research.
- GenAl can help to analyze and summarize research materials, leaving more time for faculty to synthesize and interpret literature and data.
- Draft summary research themes from results and/or discussions

# Challenge #3 | Social Media

- Brainstorm some potential social media stories that should be shared.
  - Choose a prompt from the list and edit to meet your school or department needs.
  - https://tinyurl.com/CHEFL C25b



## What did we miss?

# **Thank You!**