



Tomorrow's Doctors, Tomorrow's Cures®

How to Get Started with Faculty Development on Artificial Intelligence

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AAMC AI in Academic Medicine Webinar Series
May 22, 2025

Learn

Serve

Lead



Association of
American Medical Colleges

Group on Education Affairs



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AAMC's Strategic Framing & Priorities

AI FOR MEDICAL EDUCATION

Incorporating AI into the work you do

LEARNING & NETWORKING

Learn from experts, share your experiences, and connect with peers. Come together with the academic medicine community to innovate and advance thinking and practice.

CRITICAL RESOURCES

Explore timely, high-quality resources to guide your thinking and practice around integrating AI across medical education.

COMMUNITY COLLABORATIONS

Learn more about how the academic medicine community is working together around the globe to support each other and develop best practices.

Teaching AI best practices to learners, faculty, and staff

AI IN MEDICAL EDUCATION

Principles for the Responsible Use of Artificial Intelligence in and for Medical Education

1. Maintain Human-Centered Focus
2. Ensure Ethical and Transparent Use
3. Provide Equitable Access to AI
4. Foster Education, Training, and Continuing Professional Development
5. Develop Curricula Through Interdisciplinary Collaboration
6. Protect Data Privacy
7. Monitor and Evaluate



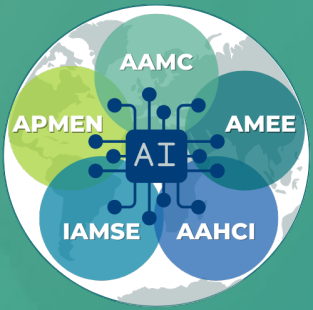
Available at aamc.org/AI

Principles for Responsible AI in Medical School Admissions and Residency Selection

1. Balance Prediction and Understanding
2. Protect against Algorithmic Bias
3. Provide Notice and Explanation
4. Protect Data Privacy
5. Incorporate Human Judgment
6. Monitor and Evaluate



Available at aamc.org/AI



International Advisory Committee for Artificial Intelligence



www.medbiq.org



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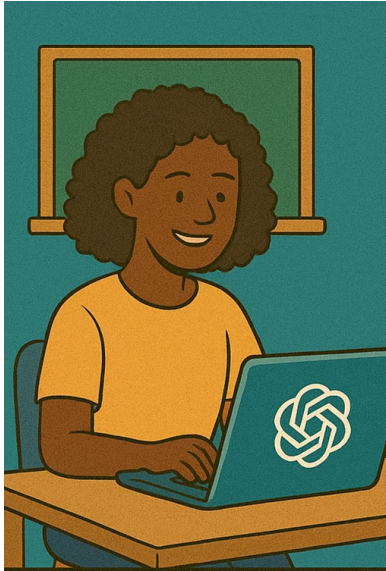


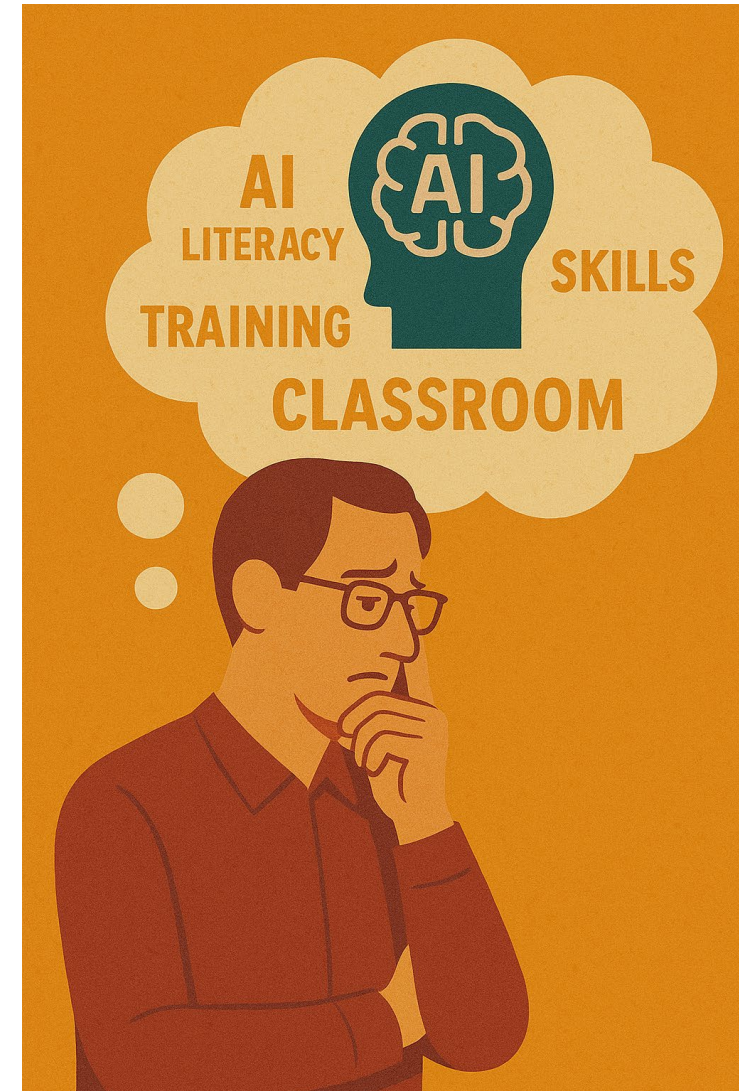
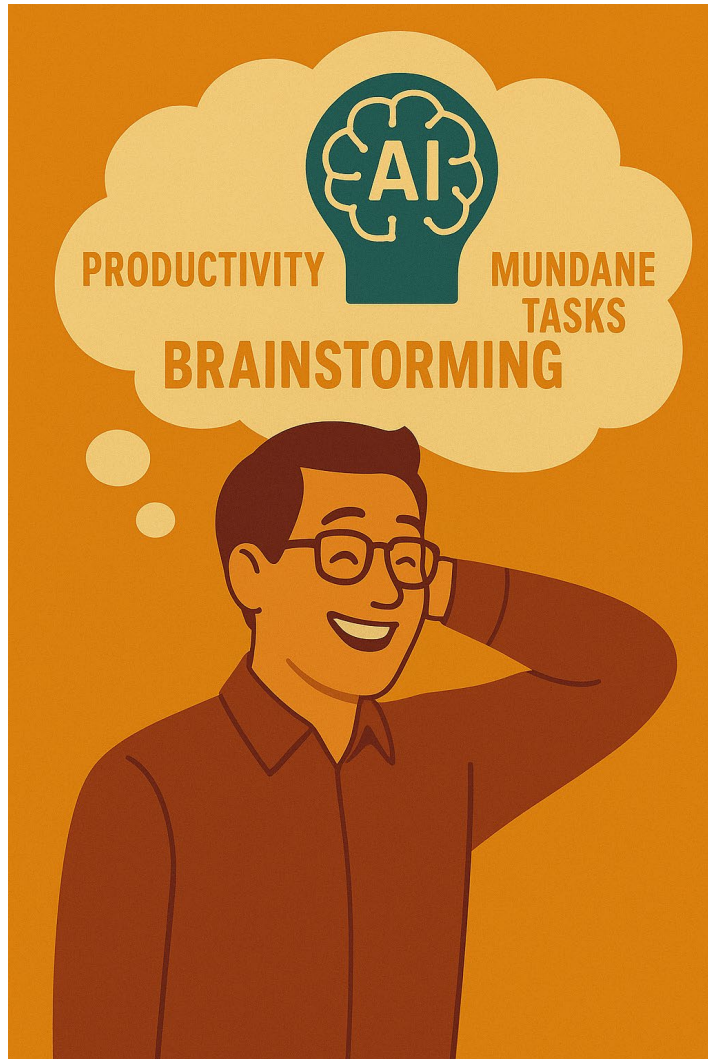
Bonnie Miller, MD
Vanderbilt University School of
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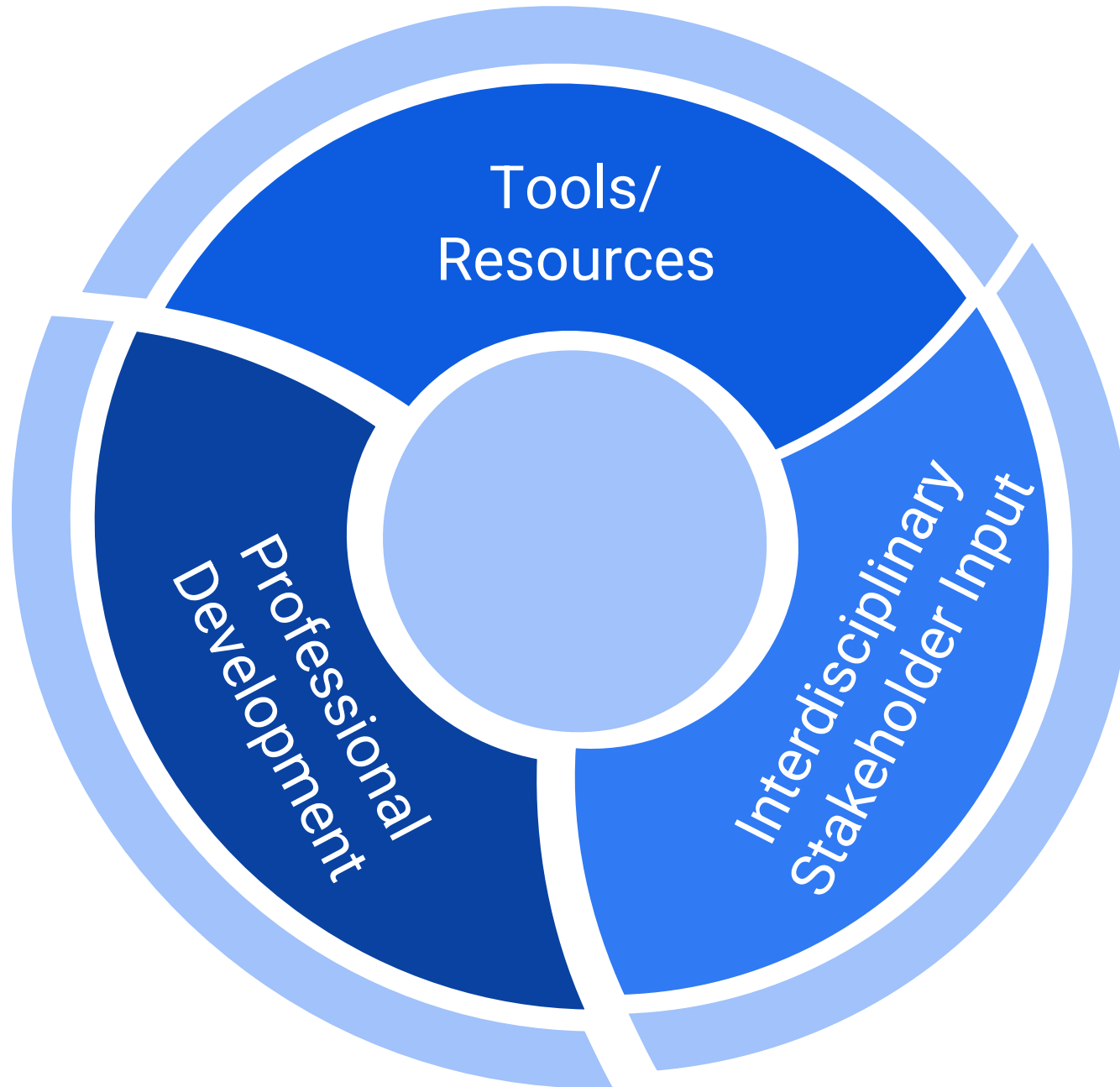


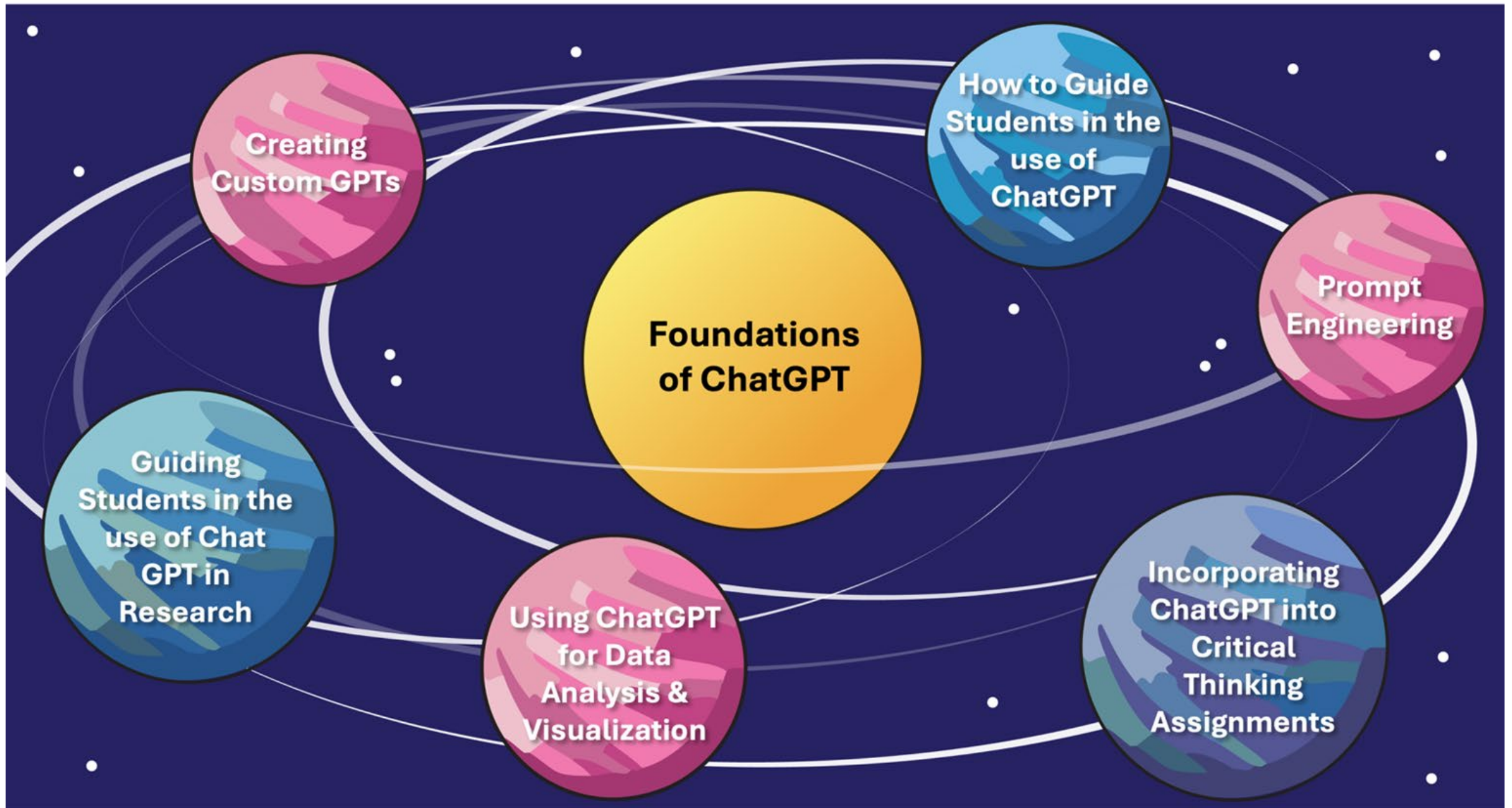
Luxia Zhang, MD, MPH
National Institute of Health Data
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Can you Imagine...









WHY NOW?

✓ SUPPORT TRANSPARENCY

Lack of transparency and policies around attribution and disclosure of AI generated content and materials.

✓ EROSION OF TRUST

When students discovered undisclosed AI-generated materials in their courses, they felt deceived and hypocritical.

✓ GAP IN EDUCATOR PREPAREDNESS

The episode underscores that many instructors lack clear guidelines or training on how—and whether—to integrate AI into teaching.

The Professors Are Using ChatGPT, and Some Students Aren't Happy About It

Students call it hypocritical. A senior at Northeastern University demanded her tuition back. But instructors say generative A.I. tools make them better at their jobs.



WHY NOW?



Rapid Adoption



Potential Risks



Faculty as Stewards of AI



Rapid Adoption



General Population

73% of the Indian population surveyed is using generative AI.

49% of the Australian population surveyed is using generative AI.

45% of the US population surveyed is using generative AI.



Teachers

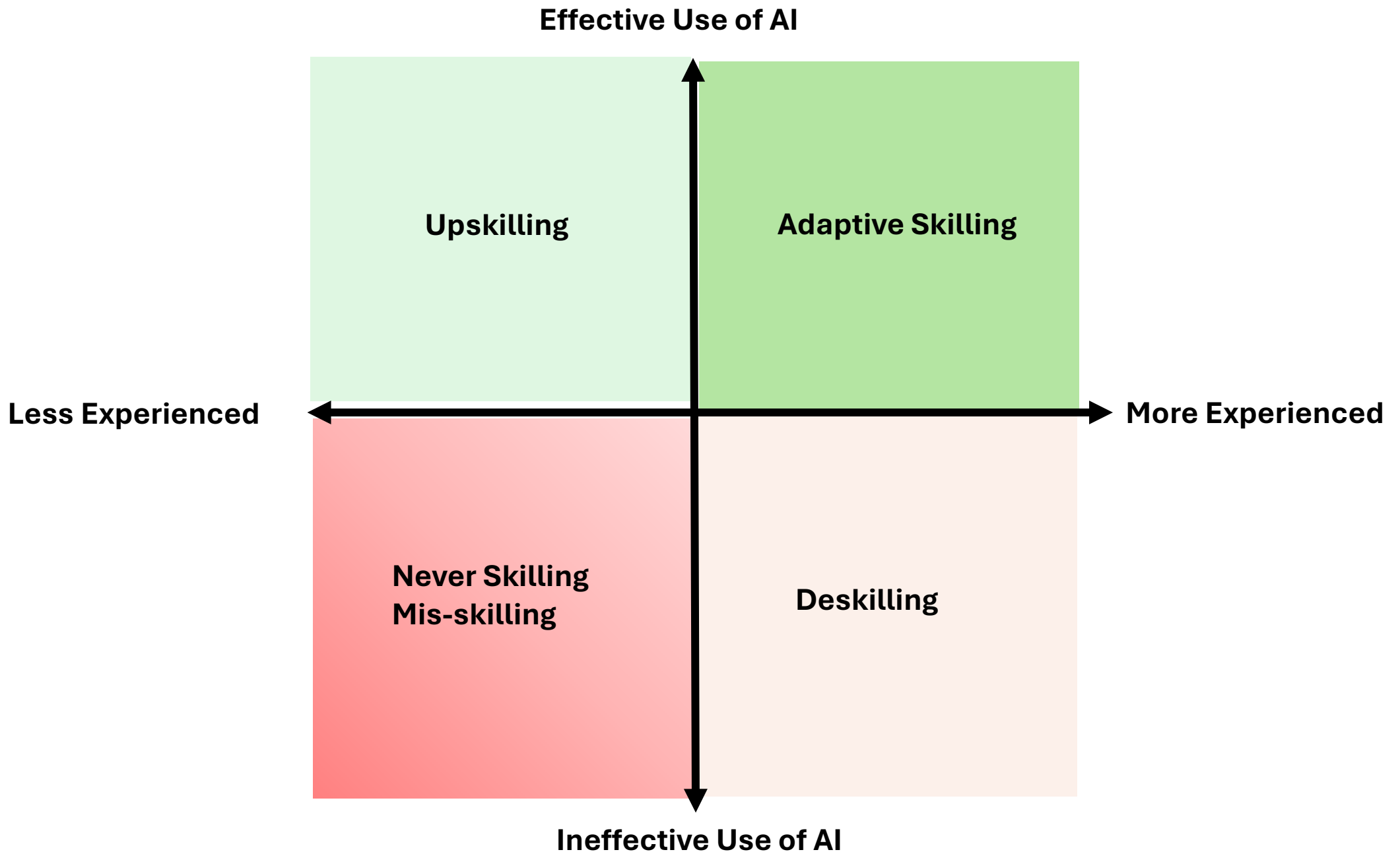
60% of Educators Use AI in their teaching and with respondents under 26 reporting the highest usage rates.



Physicians

2024 AMA Survey found that **66% of Physicians** reported using some form of AI (up from 38% in 2023) including documentation, discharge instructions, progress notes, translations, summarizing, and diagnostic support.





Stewards of Effective AI



ROLE MODEL AI LITERACY

AI terminologies, models, applications



CRITICAL EVALUATION AND ETHICS

Designing learning experiences that preserve critical thinking, evaluation, and unethical use.



PEDAGOGICAL INTEGRATION

Mapping AI affordances to educational goals



COLLABORATIVE PRACTICE

Share insights, iterating best practices, and shape future of AI in med ed.

What does faculty development on artificial intelligence look like?



Our Story

“Hey, can you help our
faculty with AI?”

John Lowry, PhD



Considerations for Teaching Others about AI



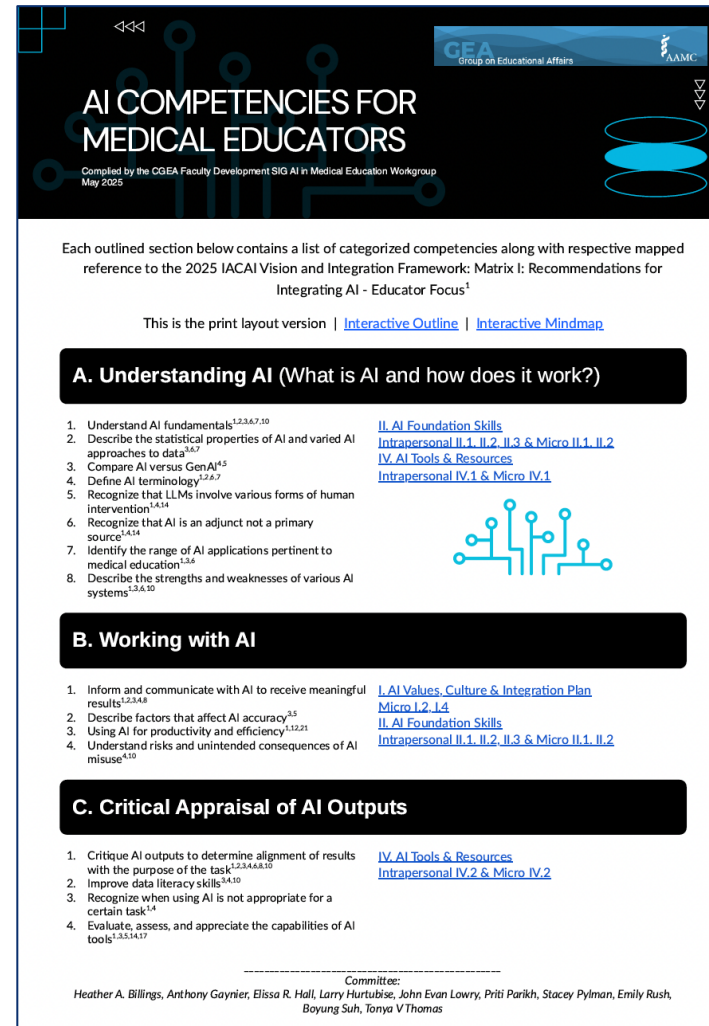
Varying Levels of Learners

- Participants will come with varying levels of AI knowledge/skill
- [UNESCO framework for teachers](#)



Start with a Competency Framework





- There are a lot of AI competency frameworks in the literature
 - Educators, HPE, students, healthcare, etc.
- We did a literature review and synthesized for our purposes
- We are using these competencies to measure growth (program evaluation)



Participant Accessibility

- Participants may have varying access to AI tools
 - Free versions
- Some institutions will have specific tools that are approved



Chatbot Cheatsheet				
AI for Education				
	 ChatGPT	 Claude	 Google Gemini	 Microsoft Copilot
Key Features	<ul style="list-style-type: none">• Text generation• File attachment (very limited in free)• Image generation (paid)• GPTs (access in free, build in paid)	<ul style="list-style-type: none">• Text generation• File attachment (free)• Process visual inputs• Focus on ethics and safety	<ul style="list-style-type: none">• Multimodal inputs (text, images, and audio)• Image generation (free)• Data analysis• Internet access	<ul style="list-style-type: none">• Multimodal inputs (text, images, and audio)• Image generation (free)• Data analysis• Internet access
Best for...	<ul style="list-style-type: none">• Basic writing tasks• Language translations• Writing code	<ul style="list-style-type: none">• Working with files• Creating interactive elements• Sophisticated writing tasks	<ul style="list-style-type: none">• Complex reasoning tasks• Working with Google tools (Gmail, Docs, YouTube, etc.)	<ul style="list-style-type: none">• Working with Microsoft suite• Data analysis with Excel
Limitations	<ul style="list-style-type: none">• Generic writing style• Free version has limited functionality• No internet access in free version	<ul style="list-style-type: none">• Usage limitations (30 messages/day on free plan)• No image generation• No internet access	Limited image generation (no people)	No document uploads on free version
Cost	Free plan or \$20/month	Free plan or \$20/month	Free plan or \$19.99/month	Free plan or \$20/month

Nimble Planning

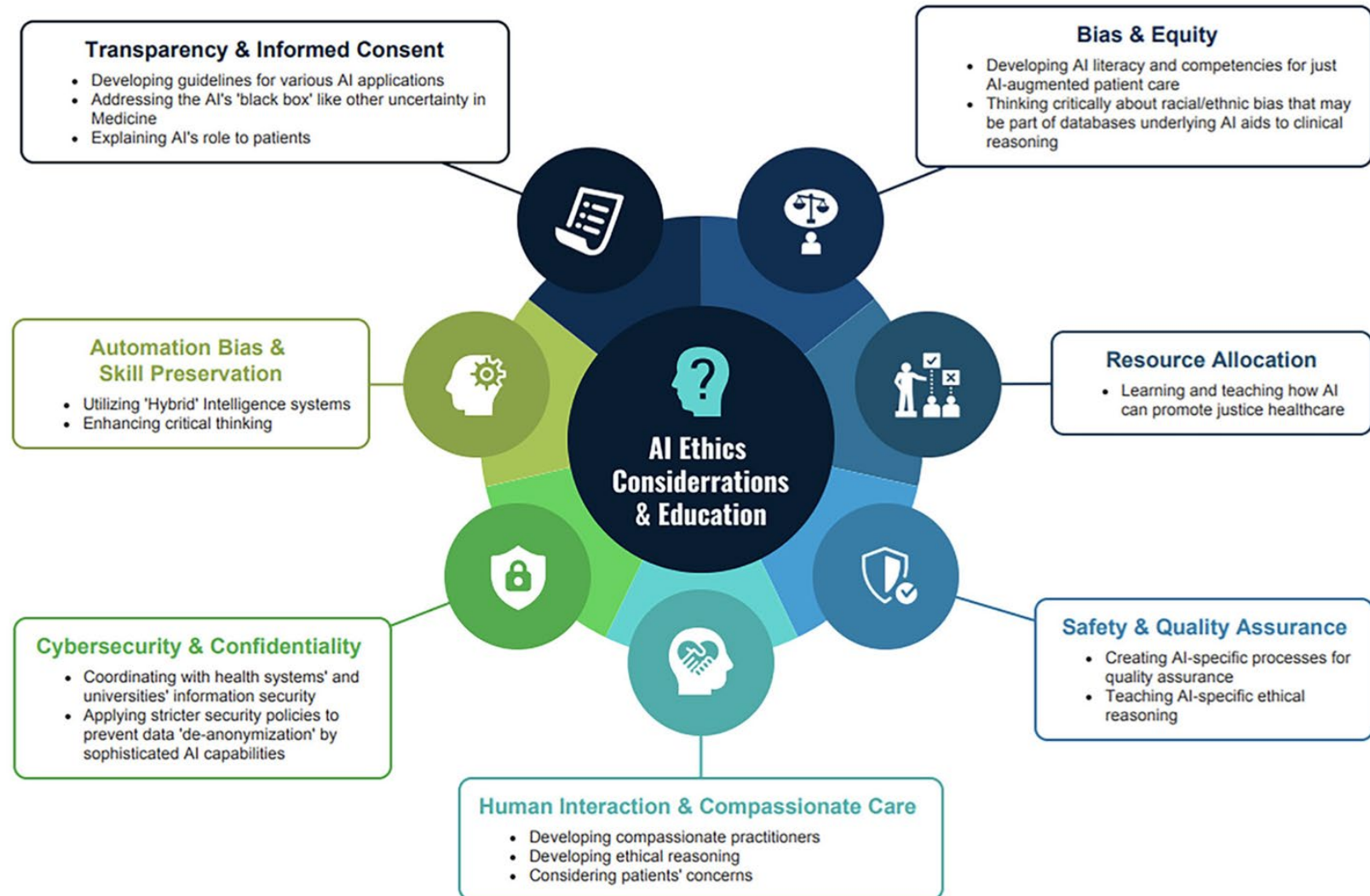
- Some AI skills will always be foundational (prompting, critically analyzing outputs, etc.)
- How we use AI and the AI tools will always be changing
- Plan flexibly

Flexibility is the
future of work



Image from: <https://www.linkedin.com/pulse/flexibility-human-resource-planning-archana-krishnasamy/>

Integrate Ethics into Everything



Morris Gordon, Michelle Daniel, Aderonke Ajiboye, Hussein Uraiby, Nicole Y. Xu, Rangana Bartlett, Janice Hanson, Mary Haas, Maxwell Spadafore, Ciaran Grafton-Clarke, Rayhan Yousef Gasiea, Colin Michie, Janet Corral, Brian Kwan, Diana Dolmans & Satid Thammasitboon (2024) A scoping review of artificial intelligence in medical education: BEME Guide No. 84, Medical Teacher, 46:4, 446-470, DOI: 10.1080/0142159X.2024.2314198. <https://www.tandfonline.com/doi/pdf/10.1080/0142159X.2024.2314198>

Figure 3. Ethical considerations for AI in medical education.

Collaborate

- Find people to talk with and experiment with (including students)
- Start AI groups at your institution
 - Share tips/tricks/tools
- Invite in presenters to share/show what they know/do
 - You don't have to be an expert to share how you have used AI in your setting



Skill Practice Time is a Must!

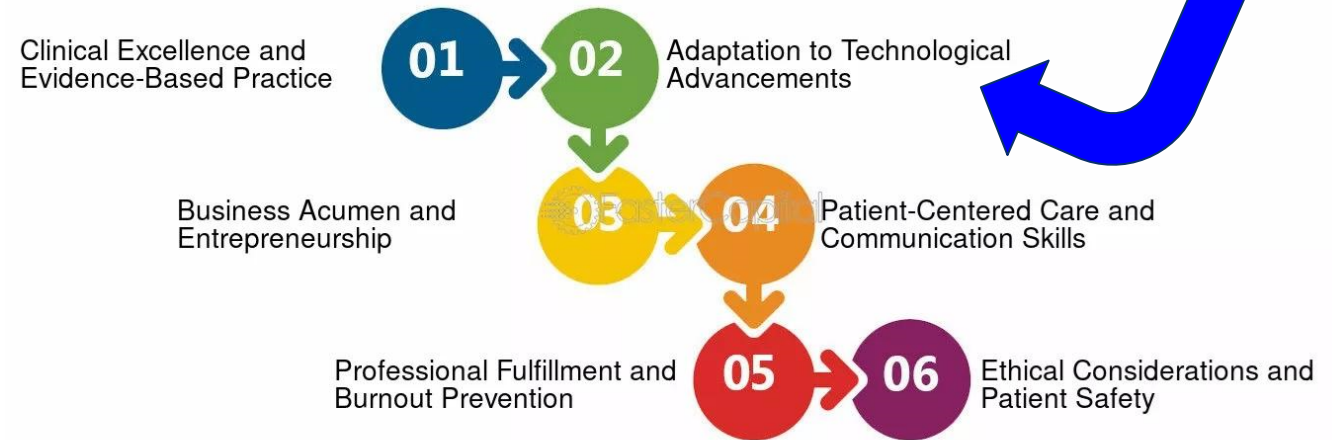


- The best way to learn AI is to explore and do
- Include activities to practice skills and create

You Can't Teach it All

- AI is ever changing so you can't teach it all
- Encourage continuous professional learning
- Create individual learning plans (ILPs)

The Importance of Lifelong Learning



<https://fastercapital.com/topics/the-importance-of-lifelong-learning-in-the-medical-field.html>

Use AI to Help You Plan

I have a planning meeting to plan a webinar about how to do AI prompting for medical education. I am planning with my colleagues. Can you help me develop a meeting agenda that will help us get the planning done efficiently? We have the objectives, but we need to plan a PowerPoint presentation and interactive activities for the live webinar where participants will learn about and practice prompting. If you need to, ask me questions for more information.

Webinar Planning Meeting Agenda "AI Prompting for Medical Education" (Duration: 60 minutes)

1. **Welcome and Meeting Purpose (3 min)**
 - Reminder: Goal is to finalize PowerPoint outline and interactive activities.
2. **Quick Review of Webinar Objectives (5 min)**
 - Confirm no changes.
 - (Keep this tight — 1 slide shared.)
3. **Outline the PowerPoint Structure (20 min)**
 - Decide on major sections (e.g., Introduction to Prompting, Good vs Poor Prompts, Prompt Engineering Tips, Medical Education Examples).
 - Assign slide topics (who drafts what later).

(Facilitator Tip: Use a shared Google Doc or whiteboard so you can capture structure visually and quickly.)
4. **Plan Interactive Activities (20 min)**
 - Decide:
 - How many activities (e.g., 2 short ones, 1 longer one)?
 - When they happen (early, middle, end?).
 - What format (polls, live demo, small group breakout, chat storm)?
 - Sketch each activity briefly:
(e.g., "Activity 1: Participants write a poor prompt and improve it in pairs.")
5. **Assign Next Steps and Timeline (10 min)**
 - Who drafts which slides?
 - Who writes instructions for each activity?
 - Set a deadline for draft review.
6. **Wrap-Up (2 min)**
 - Confirm timeline.
 - Thank everyone.

Strategies to Stay Practical During the Meeting

- **Frame everything around delivery:** ("What will the audience see or do at this point?")
- **Parking Lot:**
Politely move tangents or new ideas to a "parking lot" for later discussion.
- **Use Time Cues:**
("We have 20 minutes for the slide outline — let's focus on just the section titles now.")

Would you like me to also suggest a few simple **interactive activities** ideas you could propose during the meeting to speed that part up too?
(That way you don't lose time brainstorming live!)

Yes you can suggest interactive activities

Great! Here are 5 **interactive activity ideas** tailored for a webinar where participants are learning and practicing **AI prompting in medical education**. These vary in length and format to give you flexible options:

◆ 1. Prompt Fixer Challenge (Chat Activity or Breakout)

Timing: Early or mid-webinar

Goal: Help participants identify and revise poorly written prompts.

How:

- Show a weak example (e.g., "Write about diabetes.")
- Ask: "How would you improve this prompt to make it clearer and more useful in a medical education context?"
- Participants post improved versions in chat or discuss in breakout pairs.

◆ 2. Live Prompt Demo with Participant Input (Facilitator-led)

Timing: Mid-webinar

Goal: Show AI behavior based on different prompt styles.

How:

- Ask participants to suggest a medical education task (e.g., create a quiz, simulate feedback).

Want to See it in Action?

AAMC GEA Webinar
Series: AI Skill Building for
Medical Educators

**June 26 12:00 pm ET/ 1:00
pm CT**





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Questions? Comments?



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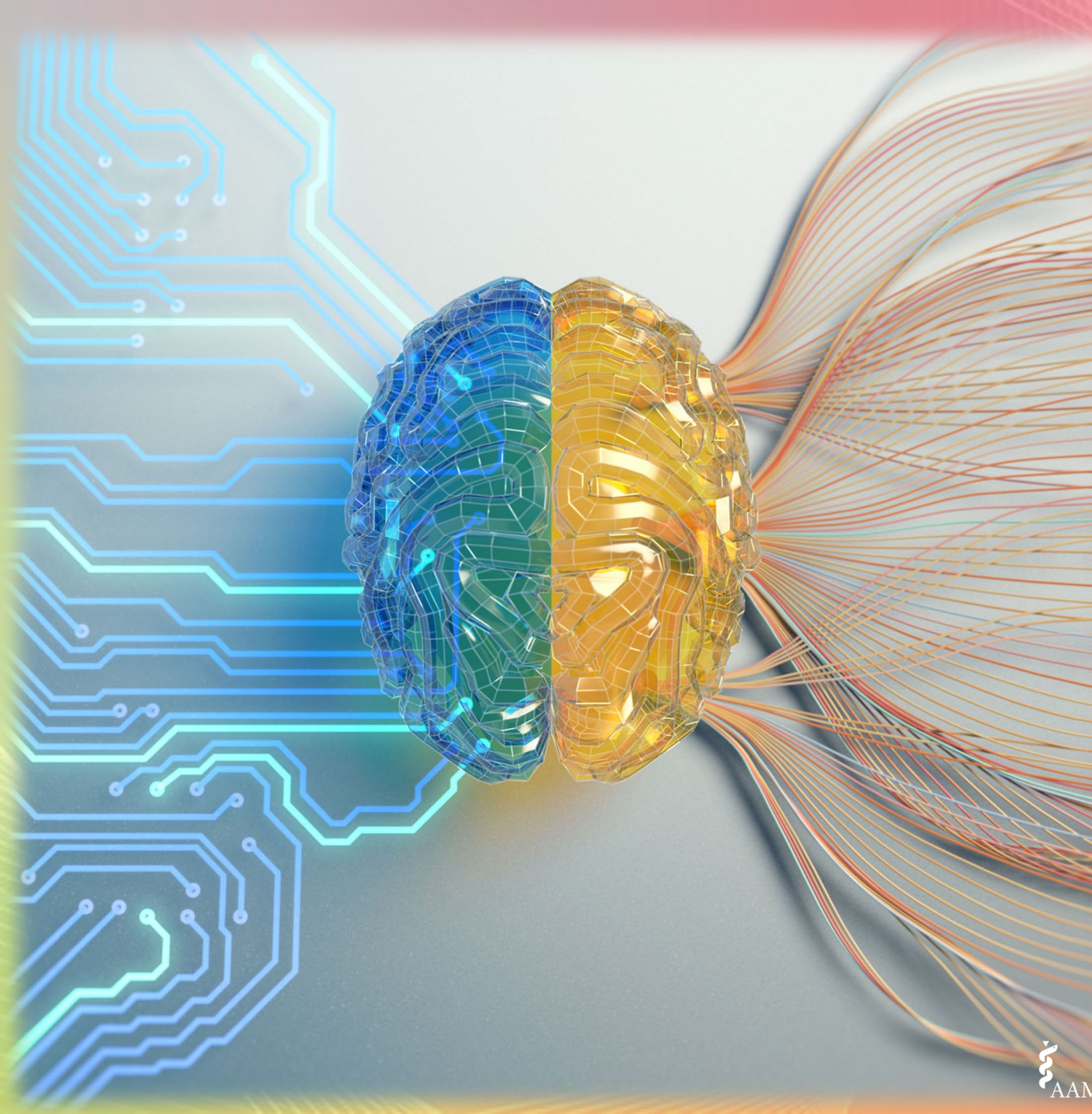
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AI in HPE Virtual Community

Join this virtual forum to share ideas, ask questions, learn from experts, connect with peers, and grow professionally.



CALL FOR SUBMISSIONS Advancing AI Across Academic Medicine Resource Collection

Now open: Call for early ed materials, practices, policies & pilots.

- **Selections from the previous call launched in April 2025.**
- **The current call for submissions are due by August 15, 11:59 pm PT.**
- **Decisions made & authors notified by Oct. 10.**
- **The collection will be updated with accepted resources by Nov. 1.**



**The goal is to advance
collaboration and
knowledge sharing and
spark innovative
thinking.**



Call for Submissions: Artificial Intelligence Education

MedEdPORTAL invites submissions
of responsible and ethical
implementation of AI tools in
teaching, learning, and assessment
towards the aim of improved
patient care



Collection Editors



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Medical School



Elissa Hall, EdD
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