All AI is Not Created Equally: How Responsible AI Can Benefit You and Your Students

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By the end of the session, participants will be able to:

1. Understand the benefits of responsible AI in healthcare education

2. Effectively implement AI tools in the classroom

3. Promote ethical use of AI

Poll: How frequently do you use AI-powered tools or services in your daily life?
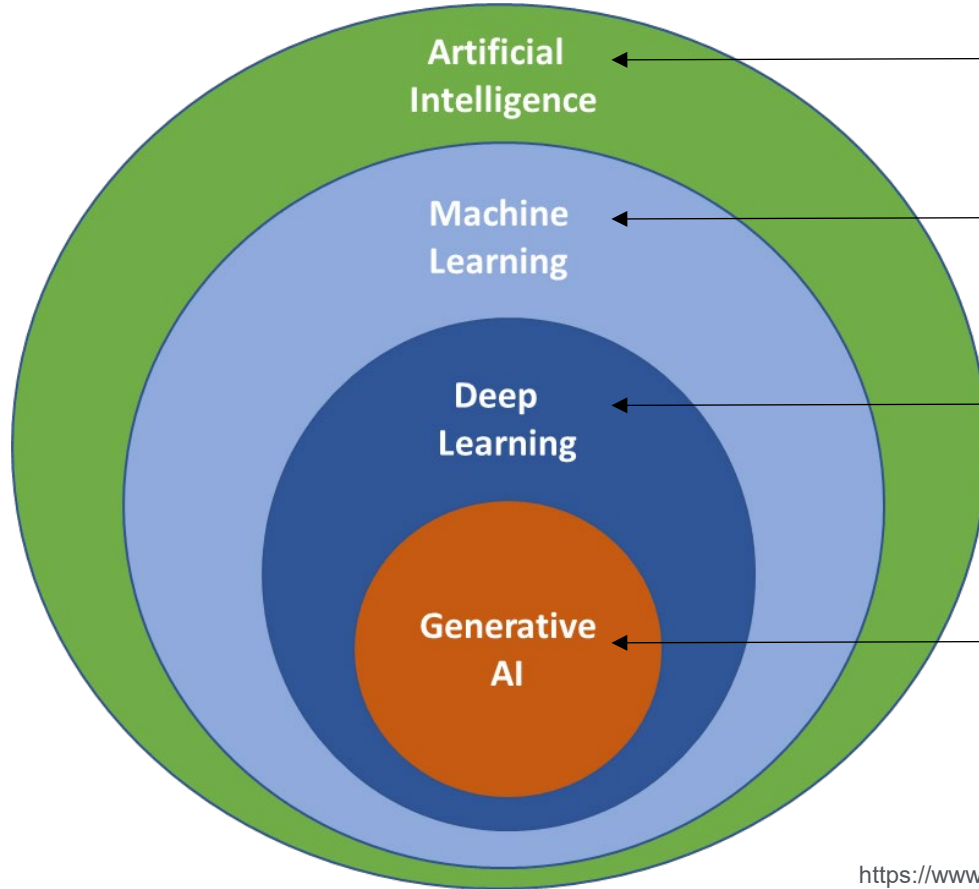
Multiple times a day

Once a day

A few times a week

Rarely

Never

AI Basics: The Hierarchy of Artificial Intelligence

Artificial Intelligence — Machines that mimic human intelligence and human cognitive functions like problem-solving and learning.

Machine Learning — A subset of AI that allows for optimization, helping you make predictions that minimize the errors that arise from merely guessing.

Deep Learning — A specific type of machine learning that uses neural networks with multiple layers to analyze and learn from data. Algorithms learn from relatively large amounts of data to identify patterns and make decisions.

Generative AI — Refers to DL technologies that create new content, or data that are coherent & plausible, resembling human-generated outputs.

Benefits of AI in Healthcare Education

Personalized Learning	Available 24/7	Enhanced Teaching Practices
Improved Student Engagement	Efficiency and Productivity	Continuous Learning and Development
Exposure to skills employers are looking for	Enhanced Clinical Training	Improved Student Outcomes

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Implications for Healthcare Education

Limitless Potential…
So Where Do I Start?

Set clear expectations for students – what is and is NOT acceptable use of AI

- Policies—KEY!

- Include in course syllabi and program documents

- Discuss as a faculty & be consistent

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Principle 1: Shift from a rules-based "honor code" approach to a values-based "academic integrity" approach.

- Guideline 1: Be proactive in clearly defining how and when students can use AI in your class, including why it may be appropriate in some instances and why it is not appropriate in others. Include this guidance in your syllabus and discuss it with your class at the start of the semester.
- Guideline 2: Align your AI use policy with your pedagogical values, goals, and philosophy. For example, a restrictive, no-use policy might not be aligned to a value of student agency.

The following is a sample statement that exemplifies a values-based academic integrity approach to AI from a Texas A&M University Center for Teaching Excellence document called Generative AI Syllabus Statement Considerations.

> Using an AI-content generator (such as ChatGPT) to complete coursework without proper attribution or authorization is a form of academic dishonesty. If you are unsure about whether something may be plagiarism or academic dishonesty, please contact your instructor to discuss the issue. Faculty, students, and administrative staff all share the responsibility of ensuring the honesty and fairness of the intellectual environment at Washington University in St. Louis.

Note: AI violations are typically cited as "unauthorized assistance" in universities' academic integrity codes. In App State's Academic Integrity Code, this is located in Article V, Prohibited Academic Conduct, 5.01 Cheating: Using, attempting to use, or giving unauthorized assistance or materials in an effort to gain academic advantage.

Principle 2: Promote transparency and accountability in the use, reporting, and citing of AI. This includes stating how faculty might use AI-detection tools in assessing students' work.

- Guideline 1: Establish open lines of communication about the use of AI for your class and foster a collegial environment to encourage students to talk to instructors when they feel inclined to use AI on assignments.
- Guideline 2: Engage students in a collegial conversation about how they produced the work and what role AI might have played.
- Guideline 3: Disclose any intended use of AI in the assessment of student work and ask students to opt in or out to having their work added to a public database in this way.

Note: Most major style guides have developed their own recommendations regarding how writers should attribute their work to AI. This is likely to be an evolving conversation, but the following sources provide guidance.

- MLA (Modern Language Association)
- Chicago Manual of Style
- APA (American Psychological Association)

Sample Syllabus Language

It is important to remember that Sherpath AI is not a replacement for your own critical thinking and original ideas. It is an educational tool you are encouraged to use in different capacities throughout the course to aid in your learning. Examples include asking for explanations on specific topics, asking for practice questions or videos, and asking for content outlines from the textbook to aide in your studies. Students may not use Sherpath AI, or any other AI, in order to complete graded written assignments in this course. Each student is expected to complete written assignments on their own, without assistance from others, which includes AI, unless otherwise directed. All sources must be cited appropriately. Violations of this policy will be considered academic misconduct.

https://teaching-resources.delta.ncsu.edu/develop-an-ai-syllabus-statement/

Give Students Some Direction

Use AI to clarify content as you study

Ask a follow-up question after a quiz, a lecture, or a clinical situation

Ask for practice questions on a topic

Ask for a content outline to guide studying

Ask for help with care plans – for example, ideas for interventions based on a patient's condition

Grab this Opportunity!

Reinforce critical appraisal of resources and results with students

Put AI to Work for YOU!

Help
Help answering difficult student questions

Refresh
Refresh your own content knowledge

Engage
Get engaging class activities
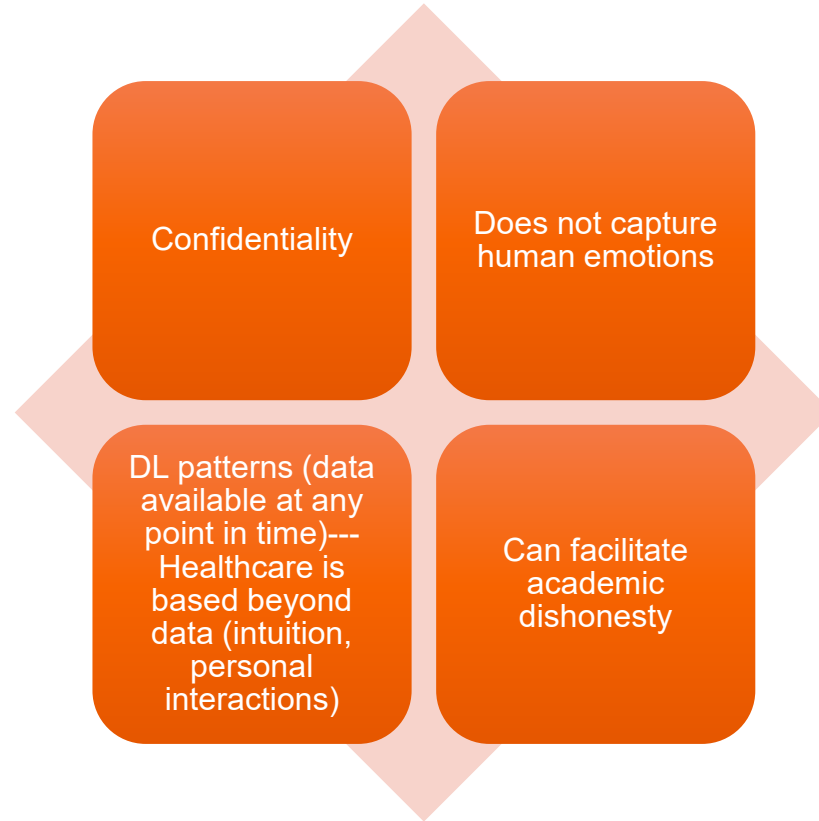
In-Class
Use chatbots in class for activities

Teach & Assess
Get ideas for how to teach students and/or assess student competency in a given area

AI-Free Summative Assessment

Ensure students are evaluated without AI assistance to accurately gauge their independent abilities

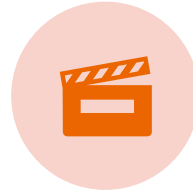# Ethical Considerations when using AI:

Six Core Principles of Sherpath AI

TRUSTED
CONTENT

VERIFIABLE
CITATIONS

MULTIMEDIA
CONTENT

INTERACTIVE
DIALOGUE

PERSONALIZED
CONTENT

RESPONSIBLE AI

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THANK YOU!!!

Questions?

Comments?

References:

https://www.elsevier.com/health/ai-in-health

https://www.elsevier.com/insights/attitudes-toward-ai

https://www.elsevier.com/resources/clinicalkey-ai-early-survey-results