

AI & ASSESSMENT INNOVATION

*Empowering Teaching and Learning Across the
Texas State University System*



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March 5

Time: 10:45-11:30 a.m.

Room: 314



Today we will....

- Analyze AI-enabled multimodal assessment tools through a UDL lens to understand how these systems capture diverse learning behaviors (voice, text, gesture) and identify potential applications for their discipline while considering ethical implications including privacy, bias, and student agency.
- Begin mapping current assessment practices to AI-enhanced alternatives using provided frameworks and resources to explore how multimodal AI tools could personalize feedback and improve accessibility in their specific teaching context,
- Articulate one specific next step for implementing AI-enhanced assessment in their classroom, sharing with peers how they will pilot or explore multimodal assessment tools to improve feedback processes in their discipline.





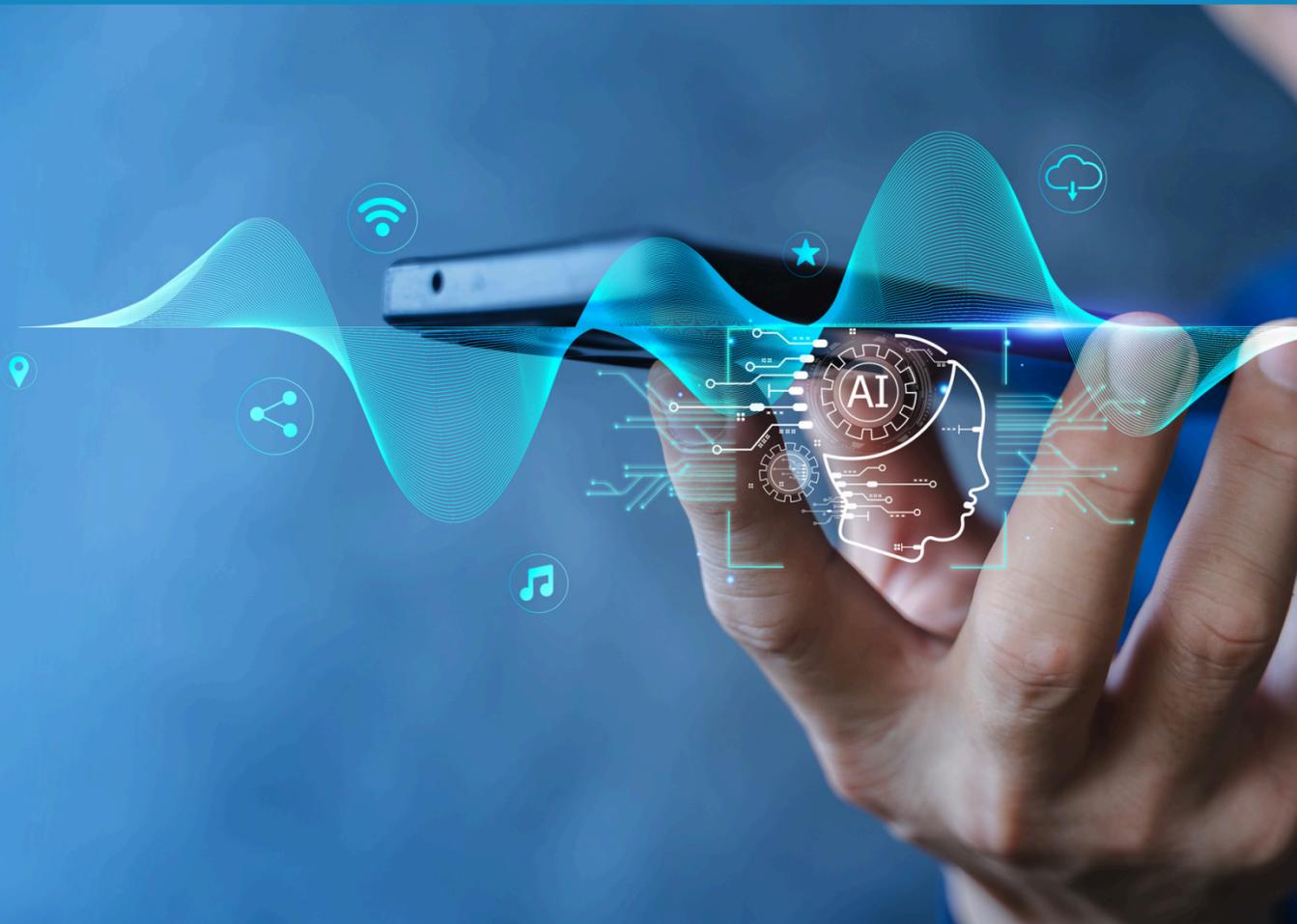
When students know something, how do they show it?



Turn to a neighbor and list 5 ways students demonstrate learning.

**Which of these
do your current
assessments
actually
capture?**

Shift from Traditional Assessment to AI Innovation



01 Visual Reasoning

■ **02** Gesture and Interaction

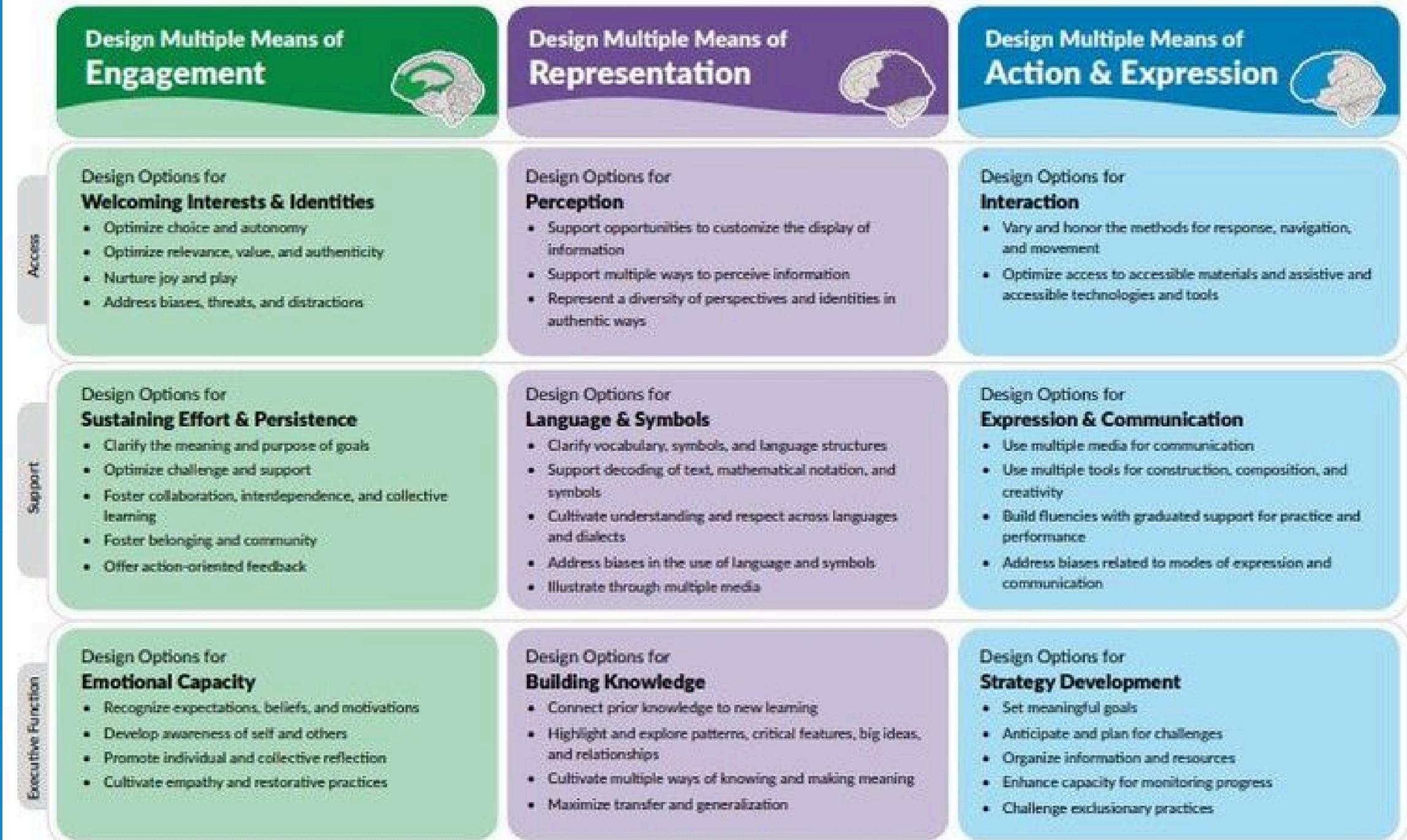
■ **03** Revision and Behavior

■ **04** Process data

05 Voice Patterns

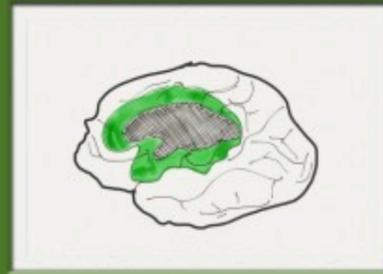
The Universal Design for Learning Guidelines

The goal of UDL is **learner agency** that is purposeful & reflective, resourceful & authentic, strategic & action-oriented.



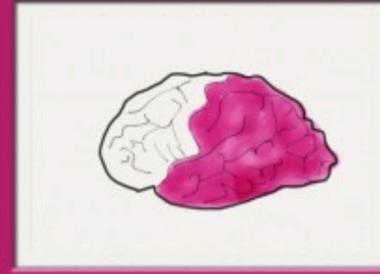
How can AI expand the principal from an assessment lens?

Engagement



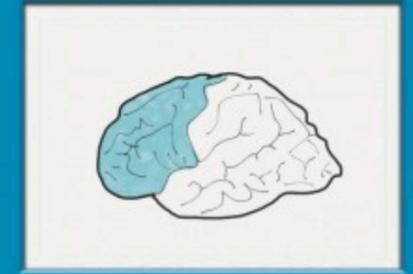
Offer options and supports to stimulate motivation and sustained enthusiasm for learning

Representation



Present information in different ways to support access and understanding

Action & expression



Offer options and supports to all so everyone can create, learn, and share

Universal Design for Learning: 3 principles



What is multimodal AI?

Systems that analyze and provide feedback on different forms of learner expression – including speech, writing, visual artifacts, simulations, coding behaviors, and even interaction patterns – to better understand how students think, solve problems, and demonstrate understanding.

AI multimodal systems particularly expand Multiple Means of Action & Expression — but also reshape engagement and representation.



AI-Powered Language Assessment: Driving the Future of Language Learning



Copy link

Italian
Greek

Arabic
Korean



Russian

Spanish



Watch on YouTube

UDL & AI Resources



STEM → simulation + gesture

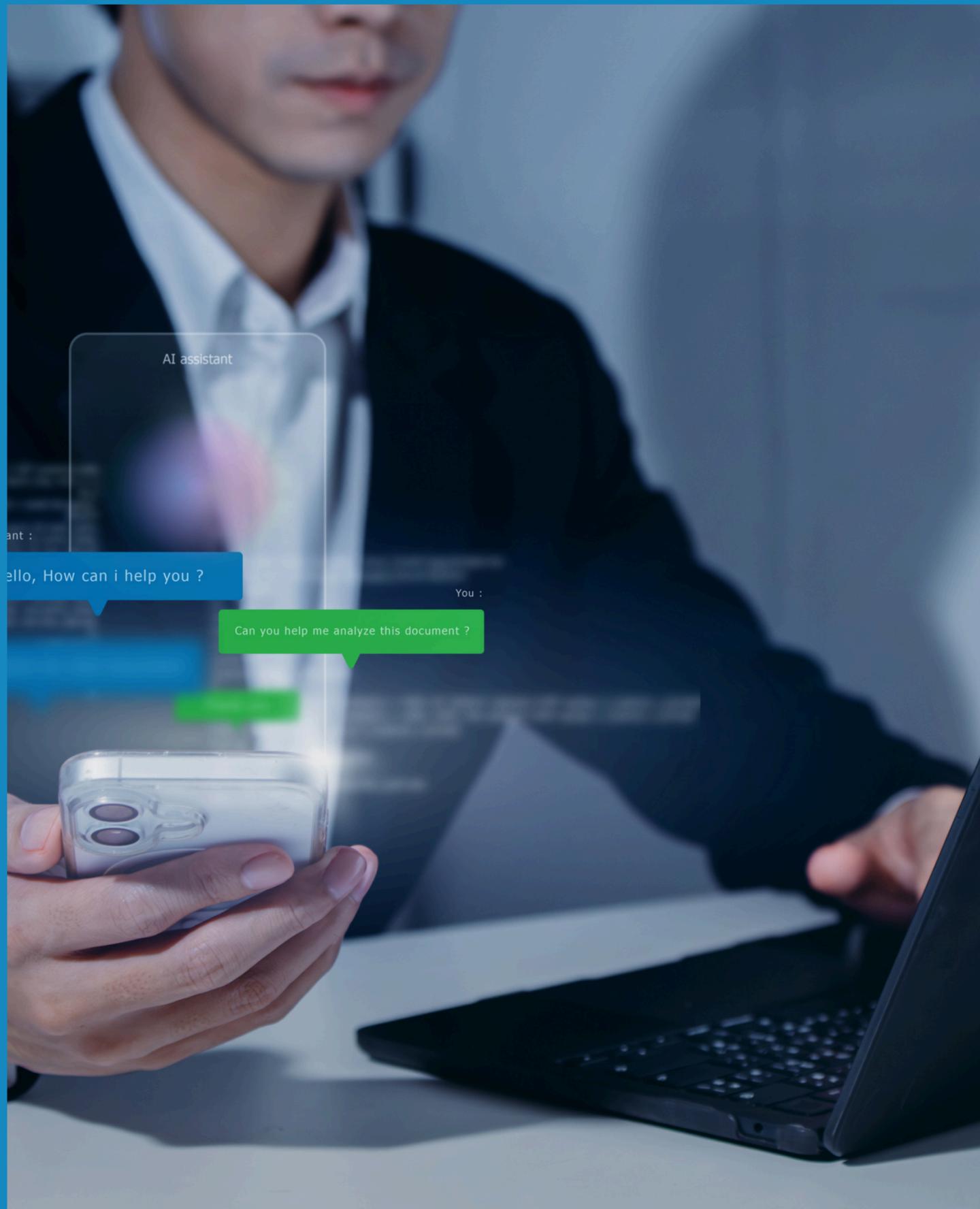
**Humanities → dialogic AI
critique**

**Education → classroom
scenario modeling**

**Business → AI-driven case
simulations**

Examples of MultiModality AI Approaches

- Speech-to-text with tone/emphasis analytics
- AI-assisted video feedback platforms
- Multimodal portfolio tools
- AI code-review systems
- Gesture-recognition simulations (STEM, health sciences)
- AI-supported design critique tools





UDL + Ethics Analysis

- AI Video Tool
- AI Generated Writing Tool
- AI Coding Assistant
- AI Discussion Analysis Tool

UDL Expansion | Data | Ethical Considerations

Mapping an Assessment

Current Assessment	AI-Enhanced Alternative	UDL Expansion	Ethical Guardrail
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Example M.Ed Graduate Student Capstone Project 2025



Graduate M.Ed. Education Technology Virtual Q&A Event

M.Ed. Educational Technology Testimonial



"The AI approaches I've learned in my graduate educational instructional technology courses have helped me meet my students where they are while still challenging them to grow. I now use technology to provide instant feedback, collect data, and make learning more interactive and effective."

Paola Gutierrez, Class of 2024

Interested in advancing your AI skills and launching a new career with a Master's in Educational Technology? Bring your questions and learn more about the program, course options, and how this degree can support your goals.



- Add AI-assisted formative feedback to improve 5th grade writing (not grading).

**Use AI rubric calibration for consistency
(faculty-facing, not student-facing).**

Blackboard

AI Rubric
Generation
Instructor

 **IgniteAI**

**MAGIC
SCHOOL**

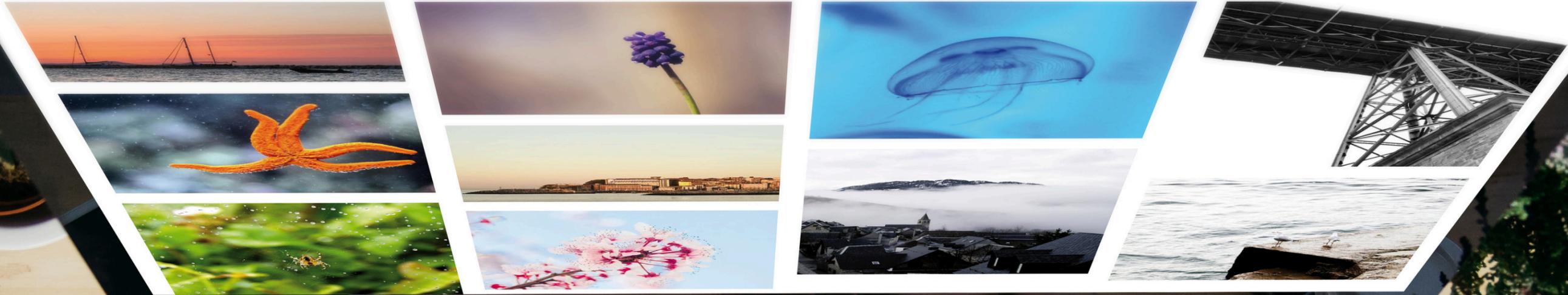


Provide voice-based feedback options.



Portfolio

HOME PAGES PHOTOS BLOG CONTACT



Replace written reflection with multimodal portfolio option.

Mapping AI Assessment Practice



**Identify ONE
current
assessment
you use.**



**Map it across
the table.**



**Identify one
AI-supported
enhancement.**



**Write one
ethical
boundary they
would set.**



Implementation Plan

1. Course:
2. Assessment to Modify:
3. AI Tool or Modality:
4. UDL Benefit:
5. Ethical Safeguards:
6. Pilot Date:
7. Evidence of Impact I Will Collect:

Are we using AI
to automate
grading...
or to expand
human
expression?





AI Assessment Innovation Should

Increase accessibility

Expand expression

Personalize feedback

Preserve agency

Reduce bias (not reproduce it)

Keep faculty judgment central

Connect with me!

THANK YOU



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