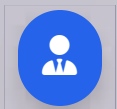


Integrating AI Into Faculty Instruction




Teaching **Smarter**, Not Harder

Practical strategies, tools, and evidence for higher education faculty to enhance learning outcomes.




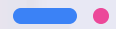
PRESENTED BY
Dr. La'Keshia Opara-Nadi
DATE
March 27, 2026



 **AI Assistant**
Active & Optimized

 **Efficiency**
+6 Hours/Week

 **Future Ready**
Empowering educators and students with next-gen tools for smarter instruction.





Why AI Matters in Higher Ed

2025-2026 LANDSCAPE ANALYSIS

Live Data Insights

90%

Faculty Adoption



↑ Up from 84% year-over-year

Ellucian 2026

66%

Institutional Use



📌 Strategic plans active

Ellucian 2026

88%

Growth Expected



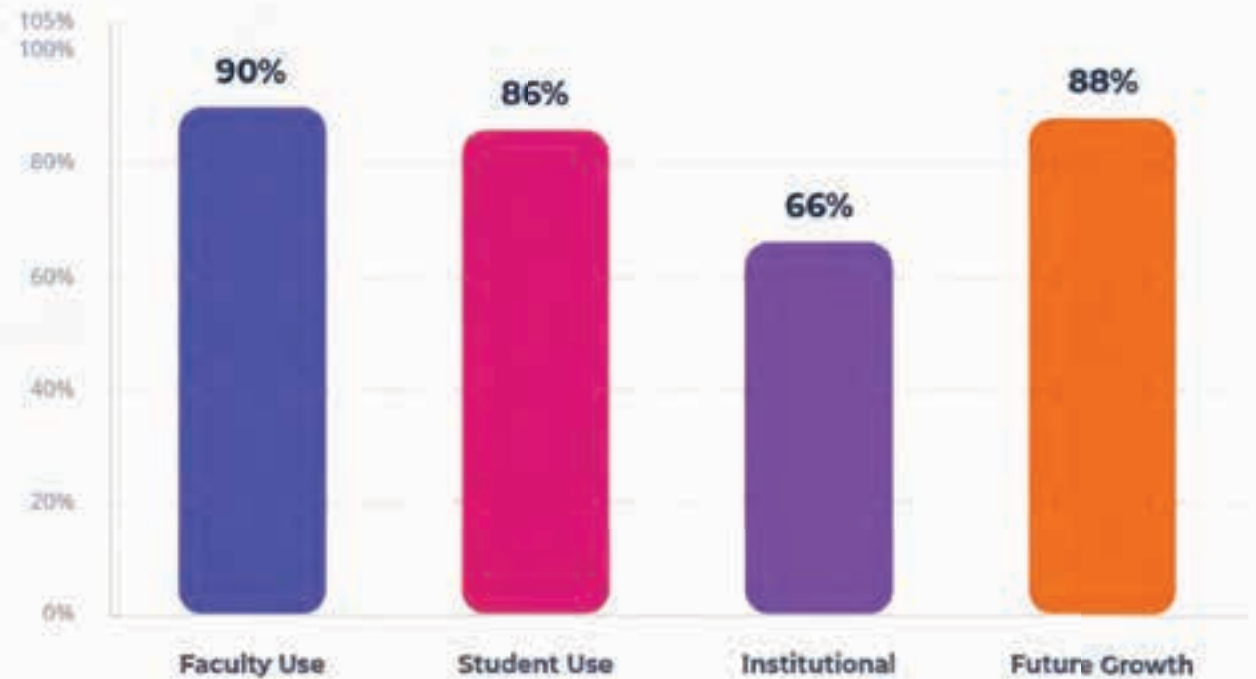
🕒 Future integration planning

Ellucian 2026

Adoption Momentum

ELLUCIAN 2026 DATA

Comparative Analysis Metrics



CRITICAL INSIGHT

While adoption is skyrocketing, **Data Security** remains the #1 barrier. Institutions are shifting from experimentation to formalized governance.



What AI Is



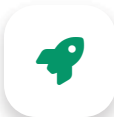
Pattern Powerhouse

Predicts & generates text, images, and code from vast data patterns.



Drafting Partner

Collaborates on brainstorming, outlining, and initial content drafts.



Scale Catalyst

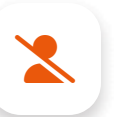
Instantly creates personalized, accessible, and differentiated materials.

What AI Is Not



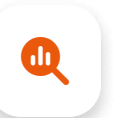
Faculty Replacement

Cannot replicate human empathy, pedagogical context, or mentorship.



Truth Source

It hallucinates. Requires expert verification, citation checking, and review.



Judgment Automator

High-stakes decisions like final grading must remain human-led.



Categories of AI Tools for Faculty

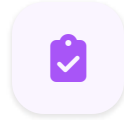


RESEARCH

General LLMs

Ideation, research, drafting

- ✓ Gemini (Google)
- ✓ ChatGPT (OpenAI)
- ✓ Claude (Anthropic)

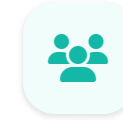


DESIGN

Planning

Curriculum design & evaluation

- ✓ MagicSchool AI
- ✓ Khanmigo
- ✓ Turnitin (Integrity)



INTERACT

Engagement

Interactive learning & feedback

- ✓ Slido (Live Polls)
- ✓ Padlet (Boards)



CREATE

Content Creation

Video, slides, interactive assets

- ✓ ScreenPal (AI Video)
- ✓ Genspark (Slides)
- ✓ Heyzine (Flipbooks)

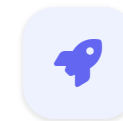


REFINE

Writing

Grammar, style, originality

- ✓ Grammarly
- ✓ QuillBot
- ✓ Turnitin



BUILD

Custom Apps

Tailored solutions & notebooks

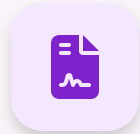
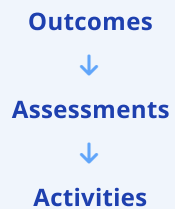
- ✓ Playlab
- ✓ NotebookLM

Tip: Map specific tools directly to your course learning goals before adoption.



Backward Design

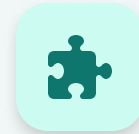
Start with outcomes to structure efficient learning paths.



Rapid Scaffolding

Accelerate administrative drafting using targeted AI prompts.

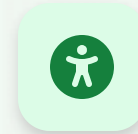
- ✓ Gemini: "Syllabi Skeleton Drafts"
- ✓ ChatGPT: Policies & schedules



Curriculum Alignment

Map course goals to assessments and materials perfectly.

- ✓ Map outcomes with Claude
- ✓ Align to Bloom's Taxonomy



Accessibility by Design

Proactively design for diverse learners from day one.

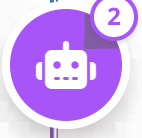
- ✓ Generate UDL-aligned alternatives
- ✓ Create accommodations & varied formats



1

Define Competencies

Establish clear learning outcomes and authentic assessments before engaging AI.



2

Ask LLM for Outline

Request a structured weekly plan with workload estimates and reading levels.



3

Generate Rubrics

Create detailed evaluation criteria and exemplars for student guidance.



4

Create LMS Checklist

Develop a module-ready checklist for your Learning Management System.



5

Review for Accuracy

Critically verify context, equity considerations, and factual correctness.



Example Prompt

READY TO COPY & ADAPT

"Create a **14-week syllabus skeleton** for **[Course Name]**, aligning each week to **[Learning Outcomes]**.

Include readings at **[Target Level]**, and generate a workload table estimating student hours per week."



PRO TIP

Iterate on this output by asking the AI to "adjust for a hybrid format" or "add more active learning components."

ScreenPal

AI VIDEO SUITE

All-in-one video platform utilizing AI for recording, editing, and accessibility compliance.

- Script-to-video generation
- Auto-captions & chapters
- Embedded quizzing features
- WCAG-friendly outputs

Genspark AI

PRESENTATION GEN

Intelligent generator that creates structured, visually consistent slide decks rapidly.

- Fast deck generation
- Brand-consistent designs
- Auto speaker notes
- Integrated visual assets

Heyzine

INTERACTIVE DOCS

Transforms static PDFs into engaging, interactive flipbooks that feel like real publications.

- PDF to flipbook conversion
- Embedded links & media
- Seamless sharing & embed
- Interactive page turning



Accessibility Best Practice

When creating multimedia content with these AI tools, always verify that auto-generated captions and alt-text are accurate before publishing to ensure universal access.



Instructional Content Creation (2/2)

Quality Assurance & Accessibility Workflow

 Assets & Quality



LLM Assets

CONTENT GENERATION

Enrich course content with diverse, AI-generated practice materials.



Case Studies

Real-world scenarios



Problem Sets

Infinite drill variations



Role-Play

Simulation scripts

CRITICAL CHECK

Verify all AI-generated facts & citations.



Accessibility

INCLUSIVE DESIGN (UDL)

Instantly adapt content formats to meet diverse learner needs.



Translation

Multilingual support



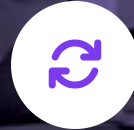
Simplification

Reduce cognitive load



Alt Text & Subs

Visual/Audio aids



Quality Loop

REFINEMENT CYCLE

Continuous improvement cycle for all AI materials.



Fact-Check

Faculty review essential



Student Feedback

Identify confusion points




Iteration

Refine prompts & outputs



THE "HUMAN-IN-THE-LOOP" PRINCIPLE

AI provides the **draft**; faculty provide the **pedagogical judgment** and context.

FACULTY OVERSIGHT 

Student Engagement (1/2)

Teaching Smarter: Interactive Tools for Active Learning

 ACTIVE LEARNING



Slido

LIVE POLLS & Q&A



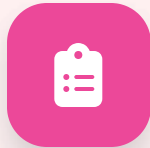
Instant Polling

Launch quizzes & polls directly within slides without switching apps.



Anonymous Q&A

Empower shy students to ask questions fearlessly during lectures.



Padlet

COLLABORATIVE WALLS



Visual Brainstorming

Digital walls for sharing ideas, images, and links in real-time.



AI Custom Boards

Auto-structure topics & prompts to jumpstart interaction instantly.



Khanmigo

GUIDED AI TUTOR



Guided Practice

Interactive exercises that reinforce lecture concepts immediately.



Smart Hints

Provides Socratic hints, not just answers, extending teacher reach.



Engagement Boost Tip PRO STRATEGY

Break up long lecture blocks with these tools. A quick **3-minute Slido poll** or **Padlet board activity** can reset student attention spans and re-energize the room.

Teaching Smarter: Student Engagement (2/2)

Deploy targeted, vibrant strategies to maintain momentum and broaden participation using AI-supported insights.



ANALYTICS

Data-Informed Nudges

Identify disengagement early to intervene effectively.

- ✓ Monitor LMS login & submission patterns
- ✓ Automate personalized check-in emails
- ✓ Target support resources to specific needs



FEEDBACK

Low-Stakes Interaction

Frequent, ungraded touchpoints to maintain momentum.

- ✓ **Muddiest Point:** Quick clarity checks
- ✓ **Exit Tickets:** Use Slido or Padlet
- ✓ Gamify review sessions without grades



DIVERSITY

Inclusive Participation

Create safe spaces that lower the barrier to entry.

- ✓ Anonymous Q&A channels reduce fear
- ✓ Allow digital "backchannel" discussions
- ✓ Provide multiple modes for contribution



Tip: AI tools should serve to **amplify** student voice, not just automate the collection of data.

Assessment & Feedback (1/2)

Strategies for Efficient Evaluation

☰ COURSE TOOLS

Rubric Drafting

GEMINI & CLAUDE

- ✓ Align criteria directly to **learning outcomes** and Bloom's Taxonomy levels.
- ✓ Generate detailed descriptions for proficiency levels (Novice to Expert).
- ✓ Refine language for clarity and student-friendly tone.

Formative Quizzes

KNOWLEDGE CHECKS

- ⚡ Instant generation of quiz questions directly from readings or transcripts.
- ⚡ Create varied formats: Multiple Choice, True/False, Short Answer.

⚠ **Validation Required:** Always verify answers and distractors for accuracy.

MagicSchool AI

DIFFERENTIATION

- ★ Generate **exit tickets** to gauge understanding instantly.
- ★ Create **differentiated practicesets** for various learner needs.
- ★ Scaffold assignments based on specific student levels.

Structured Feedback

LLM TEMPLATES

- 💬 Structure feedback with a consistent framework:

1. Strengths

2. Next Steps

3. Resources

- 💬 Ensure tone is constructive, supportive, and actionable.

Assessment & Feedback: Augment vs. Automate

Augmentation

RECOMMENDED

Faculty-in-the-loop: AI scaffolds and assists, but humans verify.

✓ Teaching prep, rubrics, formative checks

Automation

CAUTION

Full delegation without oversight risks accuracy and ethics.

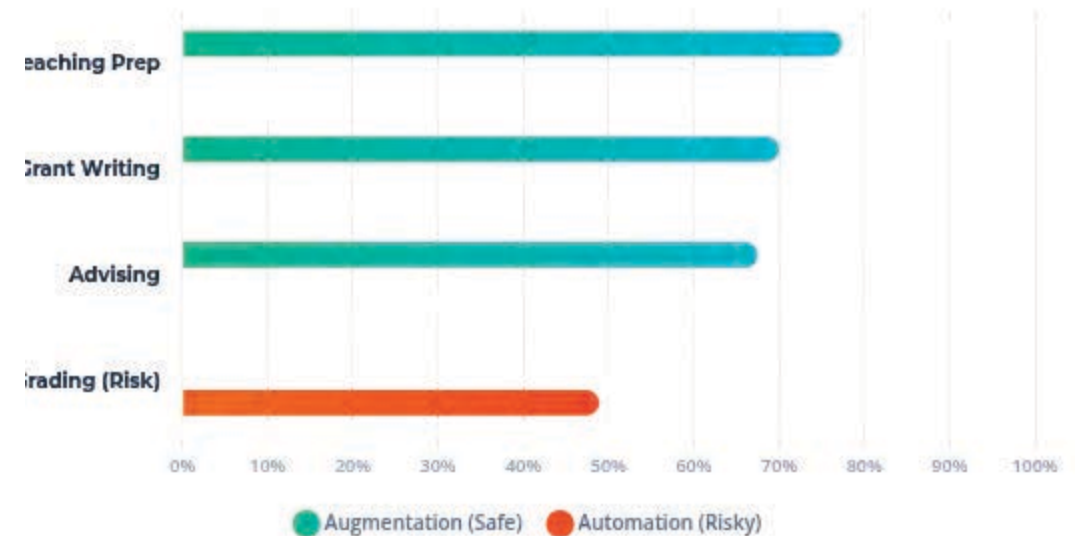
✗ High-stakes grading, final assessment

💡 **CORE GUIDELINE:** Keep judgment-intensive tasks human-led.

⚠️ HIGH RISK AREA
Grading Automation

Task Delegation Analysis

ANTHROPIC ECONOMIC INDEX (2025)



77%
PREP AUGMENTATION

48.9%
GRADING AUTOMATION

How AI Saves Faculty Time

EFFICIENCY DATA (1/2)

5.9 hrs

Weekly Time Saved

For regular weekly users



Top Areas

Assessments Admin Prep



+26%

Policy Dividend

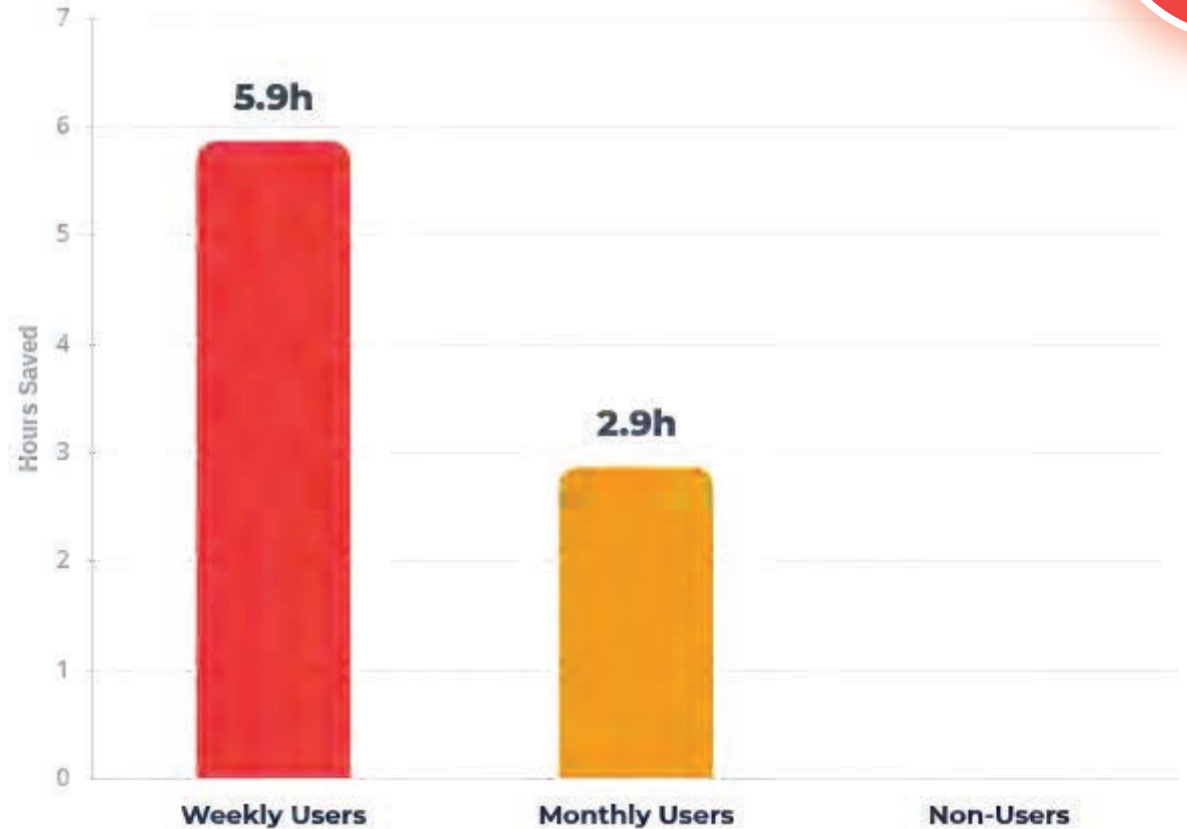
More savings with clear guidelines



Source: Gallup-Walton Family Foundation National Teacher Survey (2025)

2025 Data

Hours Saved Per Week by Usage Frequency



The AI Dividend: Regular usage correlates with double the time savings. Faculty familiar with tools reclaim nearly a full workday each week.

Data: Gallup-Walton 2025 Survey

Source: Gallup-Walton Family Foundation National Teacher Survey (2025)

6
WEEKS
SAVED!

How AI Saves Faculty Time (2/2)

Where Faculty Reclaim Time & Efficiency

Max Productivity



Planning

Batch-Generate

Create week-by-week outlines & rubrics in minutes.



Content

Reuse & Recycle

Build prompt libraries to rapidly produce assets.



Admin

Automate Tasks

Instantly generate transcripts, captions, & checklists.

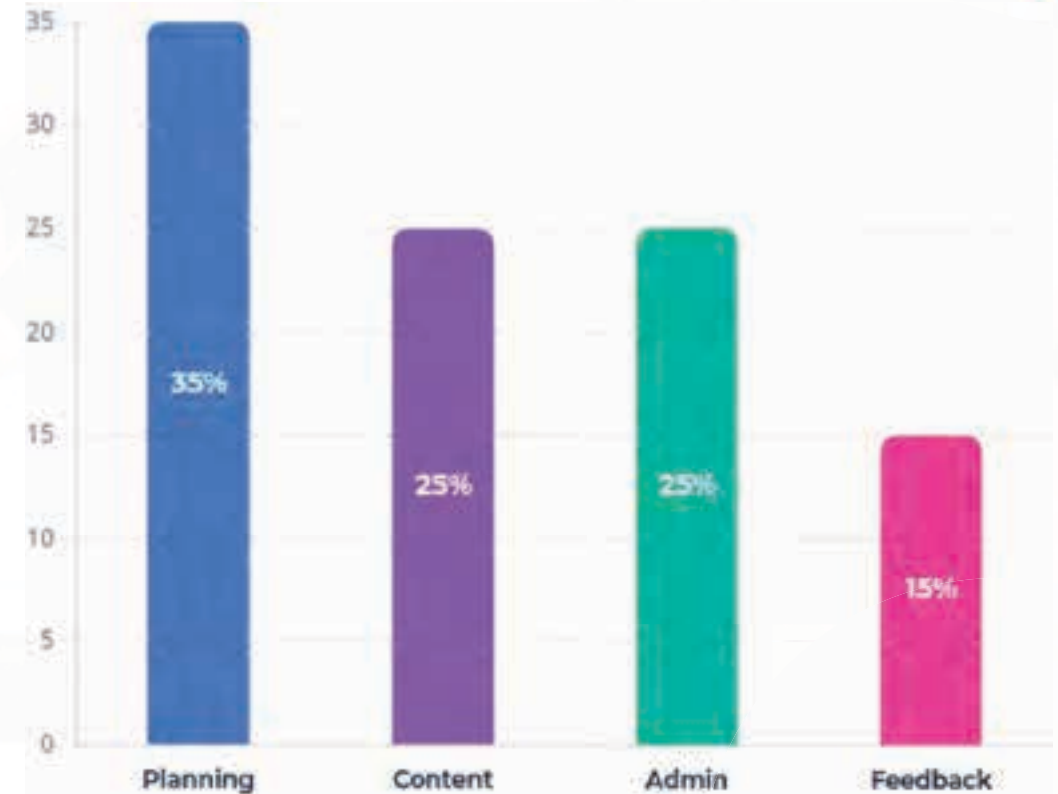


Feedback

Formative Loops

Draft detailed feedback structure instantly.


Time Reclaimed by Category



EFFICIENCY
+26%




WKLY SAVINGS
~6 Hrs

 **Gemini** Google

INTEGRATED WORKSPACE
Deep integration with Workspace. Draft syllabi in Docs; research via Search grounding.

 **ChatGPT** OpenAI


VERSATILITY & CODE
Reasoning & creative drafting standard. Powerful data analysis & vision capabilities.

 **NotebookLM** Google Labs

SOURCE-GROUNDED
What it is: AI research assistant that creates study guides, FAQs, & audio summaries from your docs.

How to use:

1. Upload PDFs/Docs/Slides
2. Ask questions across sources
3. Generate summaries & podcasts

 Faculty Workflow

Research Assistant (Gemini)
Create literature maps, synthesize themes, and generate citation drafts (verify outputs).

Content Drafting (ChatGPT)
Draft case studies, problem sets, and scenarios. Adjust tone/style for different audiences.

Faculty Workflow (NotebookLM)
Goal: Create student support materials.

Upload:
Course readings (PDFs) + Syllabus

Generate:

- Comprehensive Study Guide
- FAQ for muddy points
- Discussion Questions
- "Deep Dive" Audio Overview

Interactive Examples

Gemini Prompt:
"Create a 14-week syllabus skeleton for [Course Name] covering [Topic 1] and [Topic 2]..."

NotebookLM Action:
Upload 5 research papers → Click "Generate Audio Overview" to create a podcast-style summary for students.

Faculty Helpfulness

Ideation ★★★★★
Accuracy (Source-Grounded) ★★★★☆

Data Privacy Reminder

⚠ Never upload PII/Grades. Use institutional accounts when available.

NotebookLM in Action: Video Demo

Watch how Google's AI research assistant transforms your documents into interactive study guides and audio podcasts.



* NotebookLM is currently free and Experimental from Google Labs
i Video demonstrates creating a podcast from research papers

2:14 MIN



AI Research Assistant

Instantly summarizes complex documents and answers specific questions with citations.



Study Guides & FAQs

Auto-generates comprehensive study materials, timelines, and briefing docs from your sources.



Audio Overviews

Converts text documents into engaging two-host podcast conversations for auditory learning.



Multi-Source Analysis

Connects up to 50 documents (PDFs, Slides, Docs) to find patterns across all course materials.



AI Tools Spotlight: Claude

ANTHROPIC • ADVANCED REASONING & PROJECTS



Feature Focus: Artifacts & Projects



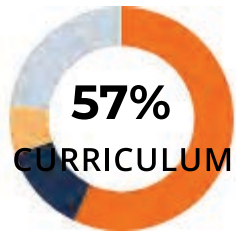
Complex Reasoning

Claude excels at processing large contexts and creating "Artifacts"—interactive windows for code and docs separate from chat.

Large Context

Nuanced Writing

Usage Data
Educator Conversations



Curriculum

Research

Claude Artifacts Example

Interactive Educational Content



Open in New Tab

Top Use Cases



Curriculum Dev
Design comprehensive course maps.



Grant Drafting
Draft proposals with specific tone.



Simulations
Build interactive learning objects.

Helpfulness

Complex Reasoning **5.0/5**

Interactive Creation **4.8/5**

↑ Interactive Artifact: Interact directly within the slide or open in new tab



AI Tools Spotlight: Padlet

Make Beautiful Boards, Documents, and Webpages



ENGAGEMENT & COLLABORATION

COLLABORATIVE BOARD



DISCUSSION POST



Faculty Use Cases

Collaborative Brainstorming

Live "Wall" for real-time ideas, links, and images. Upvoting prioritizes topics.

Gallery Walks & Portfolios

Student project uploads with structured peer feedback via comments/reactions.

AI-Structured Activities

Prompt: "Create a debate board about AI ethics" to generate columns & prompts.



AI Generation

Build plans instantly



Visual Boards

Maps, streams, grids



Safety Net

Auto-moderator

Faculty Ratings

Engagement

5.0

Ease of Use

4.9





MagicSchool AI

TEACHER PRODUCTIVITY

A comprehensive suite for **lesson planning** rubrics, and differentiation using safe, education-aligned prompts.



Lesson Assets
Plans, exit tickets & rubrics instantly



Differentiation
Scaffold & reword for all levels

PREP-TIME IMPACT
Huge Reduction



SAFETY FIRST: Built specifically for schools with strict guardrails

Khanmigo



Acts as a Socratic tutor for students (hints, not answers) and an intelligent teaching assistant for faculty.



Socratic Method
Guides thinking vs giving answers



Teaching Assistant
Summaries, hooks & content drafts



STUDENT SUPPORT
Personalized Scale



ScreenPal

VIDEO CREATION (formerly Screencast-O-Matic)

AI-Powered

Accessible

Core Features

AI Captions

ACCESSIBILITY



Automated speech-to-text generation ensures WCAG compliance instantly.

Video Quizzes

ASSESSMENT



Embed interactive questions directly into video timelines for active learning.

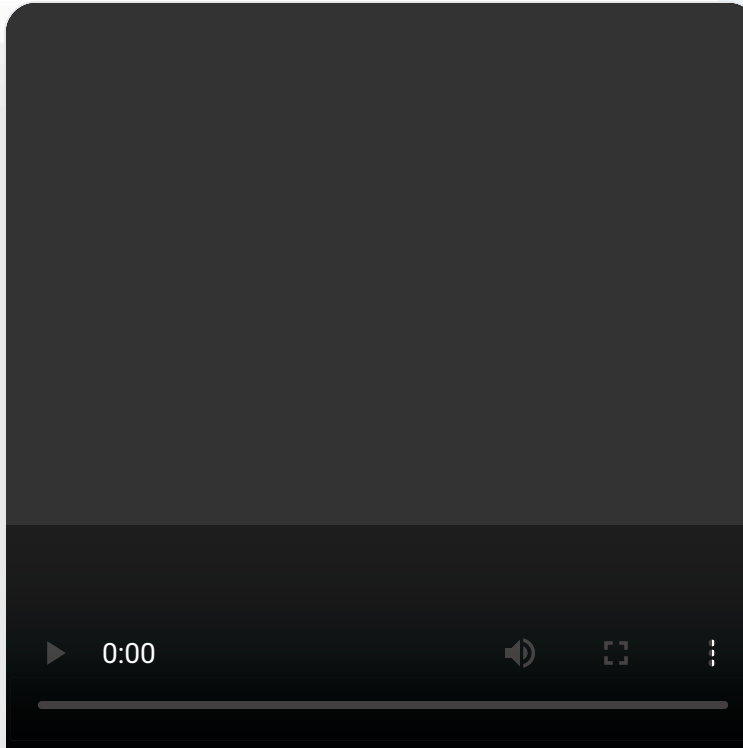
Script-to-Video

CREATION



Type your content and let AI generate the video structure and scenes.

ScreenPal in Action: Real Example



CREATED WITH SCREENPAL

Impact Metrics

4.5/5

CREATION SPEED

Faculty report significantly faster content production compared to traditional editors.

5.0/5

ACCESSIBILITY

Top-rated for automated captions and WCAG compliance features.

4.0/5

STUDENT ENGAGEMENT



AI Tools Spotlight: Playlab

CUSTOM AI APP BUILDER FOR EDUCATION

</> NO CODING REQUIRED

🎓 FREE FOR EDUCATORS



What is Playlab?

BUILD YOUR OWN AI TOOLS

Playlab is a no-code platform that empowers educators to build custom AI chatbots and tools tailored specifically to their curriculum. Instead of using a generic AI, you create specialized assistants that know your specific course content.

3 SIMPLE STEPS TO BUILD

1 Name Your Project
"Bio 101 Tutor"

2 Write Instructions
"Act as a Socratic tutor..."

3 Publish & Share
Get a link for students

Real Use Cases

📖 Focused Biology Tutor

"Create a tutor that only answers questions about Cell Biology Unit 3 and refuses to write essays for students."

💬 Language Partner

"Build a French conversation partner that role-plays as a Parisian waiter, correcting grammar gently."

📝 Rubric Feedback Tool

"Upload your grading rubric so students can paste their draft and get feedback on specific criteria before submission."



Why Faculty Love It

- ✔️ **Zero Coding Required**
If you can write a sentence, you can build an app.
- ✔️ **Curriculum-Specific**
You control the knowledge base and guardrails.
- ✔️ **24/7 Student Support**
Scale your office hours with an AI clone.



Privacy & Safety

Playlab is designed for education. You control visibility (private, password-protected, or public link).

Live Flipbook Demo

INTERACTIVE

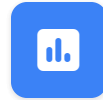


Interactive Example: Flip pages to experience digital engagement



Heyzine

Transforms static PDFs into interactive flipbooks with video, audio, and links. Perfect for syllabi and course guides.




Slido

AUDIENCE INTERACTION

LIVE POLLING

Runs live polls, quizzes, and Q&A directly within presentation decks. Keeps students engaged anonymously without app switching.

 **Best Workflow:** Launch a "Muddiest Point" word cloud after complex topics to identify confusion instantly.




Genspark AI

RAPID SLIDE DESIGN

PRESENTATIONS

Generates professional, brand-consistent slide decks with speaker notes and images in minutes from simple text prompts.

 **Best Workflow:** Input lecture outlines to generate structured slide decks, saving formatting time for content refinement.

Writing & Integrity Suite

Enhance Quality • Ensure Originality • Streamline Feedback

Drafting

Refining

Verifying



QuillBot

PARAPHRASING & CLARITY

Advanced AI rewriting tool that improves fluency and vocabulary. Includes citation generator and grammar checker to polish initial drafts.



Grammarly

TONE & MECHANICS

Real-time writing assistant for correctness, clarity, and tone. Offers suggestions to improve engagement and delivery in student work.

REFINING



Turnitin

SIMILARITY & DETECTION

Industry standard for originality checks. Features AI writing indicators to flag potential generative AI use for further review.

INTEGRITY

Drafting Support

Encourage students to use QuillBot to rephrase complex ideas or overcome writer's block, focusing on clarity.

Polish & Tone

Require Grammarly checks before submission to reduce basic errors, allowing grading to focus on substance.

Integrity Review

Use Turnitin reports as conversation starters. High AI scores indicate a need for dialogue, not automatic failure.

Feedback Loop

Combine automated grammar feedback with faculty qualitative insights for holistic grading.

FACULTY HELPFULNESS

Writing Quality



Integrity Check



Interpretation Guide

- ✓ Use tools to teach, not just police.
- ✓ Verify AI detection flags manually.
- ✓ Set clear syllabus policies.

Encouraging Responsible Student AI Use

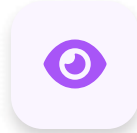
 STUDENT SUCCESS



SYLLABUS

Clear Guidelines

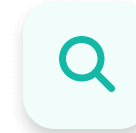
Publish clear AI statements in your syllabus. Provide specific, task-level guidance on when AI is permitted.



DISCLOSURE

Transparency

Ask students to disclose AI assistance. Require submission of prompts used and reflection on output quality.



CRITICAL THINKING

Verification

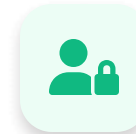
Shift focus to evaluation. Teach students to fact-check claims, trace sources, and identify hallucinations.



PROCESS FOCUSED

Resilient Assessment

Design assessments harder to automate: process portfolios, in-class writing, oral defenses, and localized case studies.



DATA SAFETY

Protect Privacy

Instruct students to avoid entering PII. Stick to institution-approved tools to ensure data security and compliance.



PEDAGOGY TIP

Frame AI literacy as a professional skill. Students need to learn *how* to use these tools responsibly for their future careers.



Key Takeaways & Final Thoughts

Summary



Adoption is Mainstream

The conversation has shifted from "if" to "how." Focus must now turn to **strategy** and institutional **governance**.



Biggest Faculty Gains

Highest value realized in **planning, content creation, formative feedback**, and reducing admin workload.



Augment, Don't Replace

Keep humans in the loop for **judgment-intensive tasks**. Augment efficiency, preserve expertise.



Start Small

Pick just **2-3 tools** that map directly to your specific learning outcomes rather than trying to master everything at once.



Build Capacity

Investing in **training** + clear **policies** will multiply the AI dividend across the faculty and institution.

66

"AI isn't about working harder; it's about teaching smarter to empower every student."





Thank You / Q&A

Let's discuss how these tools can transform your teaching practice.



CONTACT ME
lakeshia.a.opara-nadi@jsums.edu



— DISCUSSION PROMPT

"Which one workflow will you pilot next term?"

Pick one small change to start your AI integration journey.



Key Resources & Citations

- ✓ **Ellucian (2026)**
3rd Annual Higher Education AI Survey
- ✓ **Gallup-Walton (2025)**
The AI Dividend Report
- ✓ **Anthropic (2025)**
Educator Usage Analysis
- ✓ **Vendor Tools**
Gemini, Claude, MagicSchool AI, etc.



Start Small

Pick 2-3 tools that map directly to your outcomes.



Build Capacity

Training + policies multiply the AI dividend