

Welcome to AI Digest! A periodic digest of all things Generative AI, from AI tools to higher ed to industry and the future of jobs. Views expressed do not reflect the official stance or endorsement of Texas Tech University. Remember to ALWAYS use generative AI responsibly:

- Protect intellectual property and personally identifiable information.
- Verify all output.

Teaching

[Grammarly for Education Webinar Nov. 18: Practical Steps for Transformational AI Use](#)

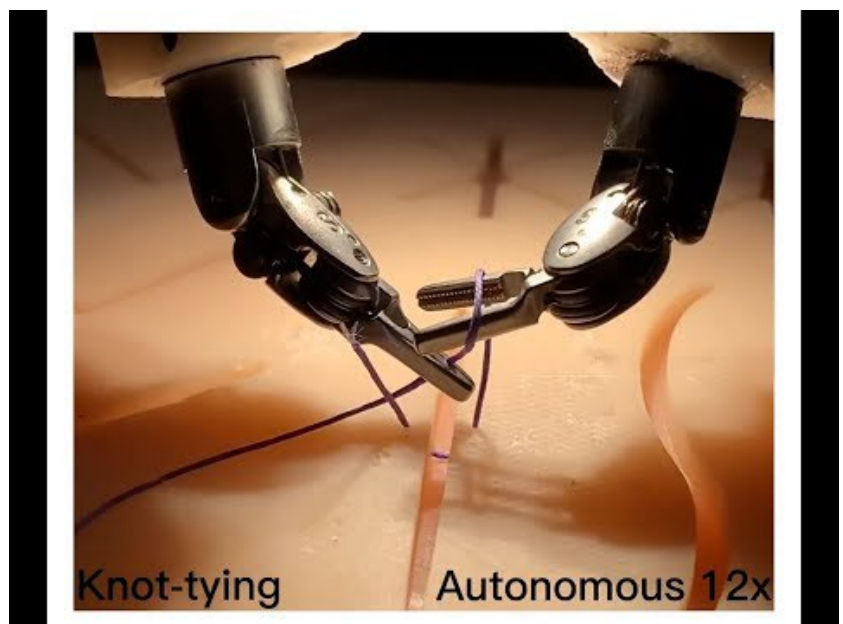
Learn how the University of Texas at Austin is successfully driving institution-wide AI buy-in and adoption, providing straightforward guidance to help faculty implement and adopt AI across disciplines. Sign up even if you can't attend! They will generally send a recording.

Three simple ways to use AI to empower teaching and learning

Some people fear its potential for misuse and academic dishonesty. However, conversations about AI in higher education have broadened to encompass this technology's tremendous ability to positively transform teaching and learning. Our job as educators is to bridge the daunting gap of the unknown and help our students learn how to use this new tool at their disposal. Instead of shying away from this incredibly useful resource, we should be instructing students on the moral and appropriate ways to utilize AI. Read the tips here: <https://www.pearson.com/en-us/higher-education/insights-and-events/teaching-and-learning-blog/2024/06/three-simple-ways-to-use-ai-to-empower-teaching-and-learning.html>

Surgical Robots

A robot, trained ***by watching videos of seasoned surgeons***, executed the same surgical procedures as skillfully as the human doctors at [Johns Hopkins](#). Be sure to watch the cool video!



Productivity

6 ChatGPT Prompts To Eliminate Hours Of Boring Tasks

1. Crafting Communication Templates
2. Generating Content
3. Repurposing Content
4. Automating Culture-Building Initiatives
5. Recapping Meetings And Action Items
6. Guiding Your Research

<https://www.forbes.com/sites/aytekintank/2024/11/12/6-chatgpt-prompts-to-eliminate-hours-of-boring-tasks/>

Security and Technology

Cheaper LLMs?

LLM costs are decreasing, making AI applications more affordable and accessible. However, the rate of cost reduction may slow for certain techniques like quantization. Providers like OpenAI focus on high-quality models, maintaining a premium market segment. This affordability opens opportunities for entrepreneurs to innovate in AI-driven applications. <https://a16z.com/llmflation-llm-inference-cost/>

AI scaling laws at OpenAI plateau (basically not improving as fast). It turns out, it's not just OpenAI—Google's feeling the pain, too. As all the major AI companies are admitting to diminishing returns from bigger models, they're also planning some of the biggest computing builds in history. [The Neuron Daily](#)

Google DeepMind has a new way to look inside an AI's "mind"

We don't know exactly how AI works, or why it works so well. That's a problem: It could lead us to deploy an AI system in a highly sensitive field like medicine without understanding that it could have critical flaws embedded in its workings. A team at Google DeepMind that studies something called mechanistic interpretability has been working on new ways to let us peer under the hood. It recently released a tool to help researchers understand what is happening when AI is generating an output. MIT Technology Review:

<https://www.technologyreview.com/2024/11/14/1106871/google-deepmind-has-a-new-way-to-look-inside-an-ais-mind>

Red Teaming with DoE

Anthropic is working with the Department of Energy's nuclear specialists to ensure its models don't help people make weapons, the company first shared with Axios.

<https://www.axios.com/2023/10/31/what-relying-on-ai-red-teaming-leaves-out>

ToTW: Tools of the Week

Venice lets you search for information, have conversations, analyze documents, and create images and art. However: Venice CLAIMS it doesn't spy on you, and it lets you choose which open source model you want to use. [Try uncensored AI for free \(account optional\)](#). Use code **TLDR20** for 20% off the Pro version.

Kahnmigo, built by nonprofit Khan Academy, is free for faculty! AI powered tools designed to save you time and improve instruction.

<https://www.khanacademy.org/teacher/khanmigo-tools>

Until next time! Check out the [Small Bytes Blog](#) and the [TLPDC website](#) for more AI tips and workshops. Contact Lisa Du Bois Low, Faculty Fellow, at lisa.low@ttu.edu for more information or [book a 60-minute consultation](#).