



SHENANDOAH[®]
UNIVERSITY

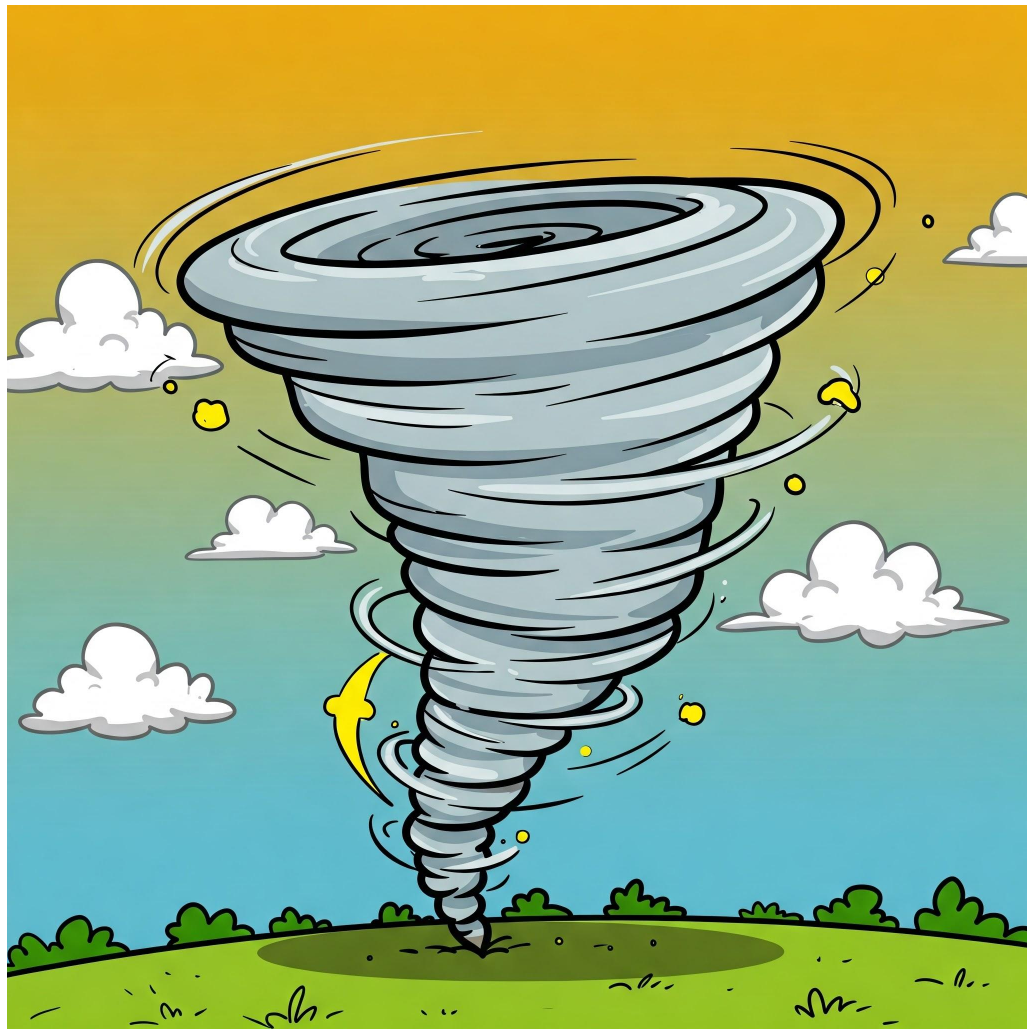
150 YEARS
1875-2025

The AI Enabled University

Dr. Devon Taylor

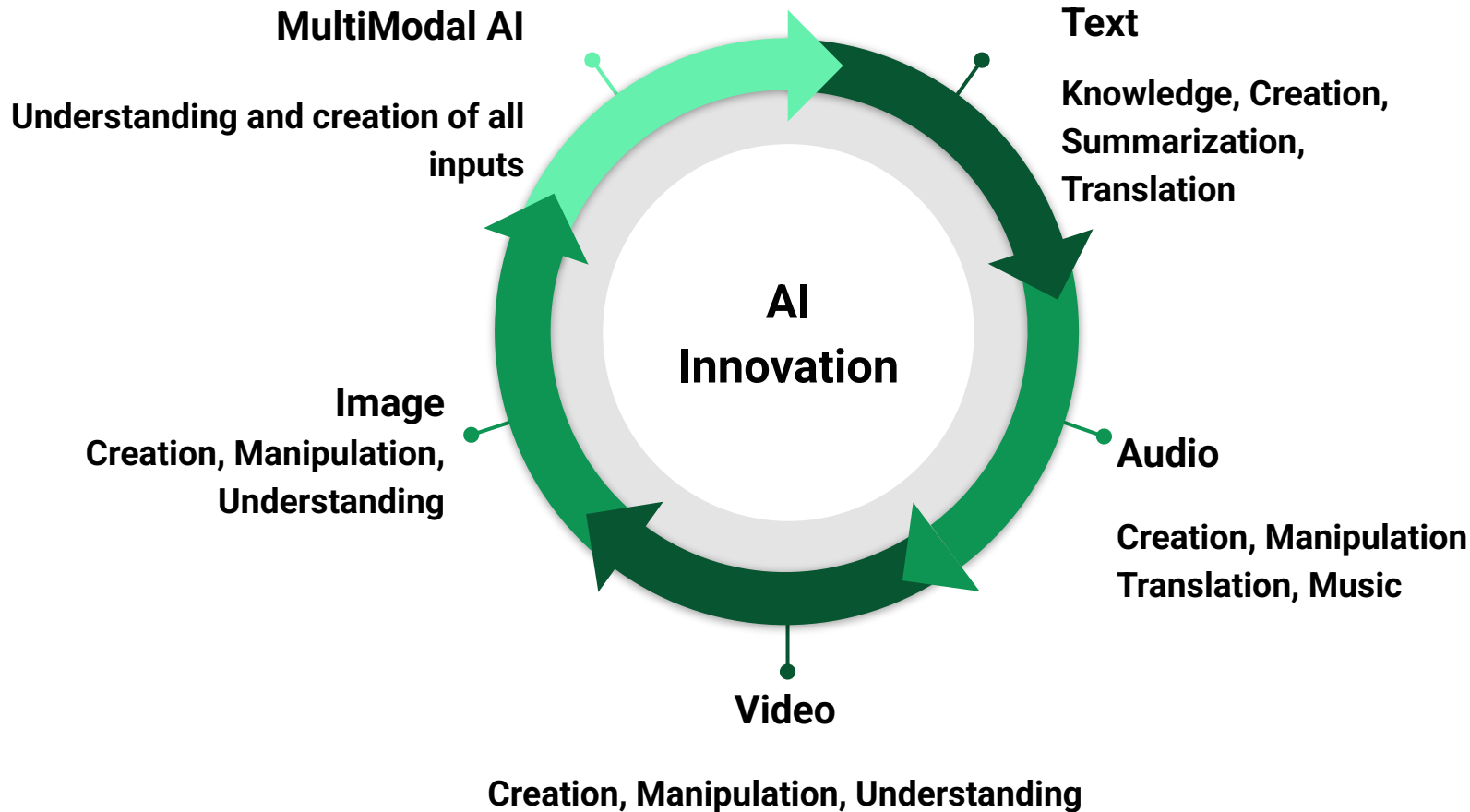
CIO @ Shenandoah U





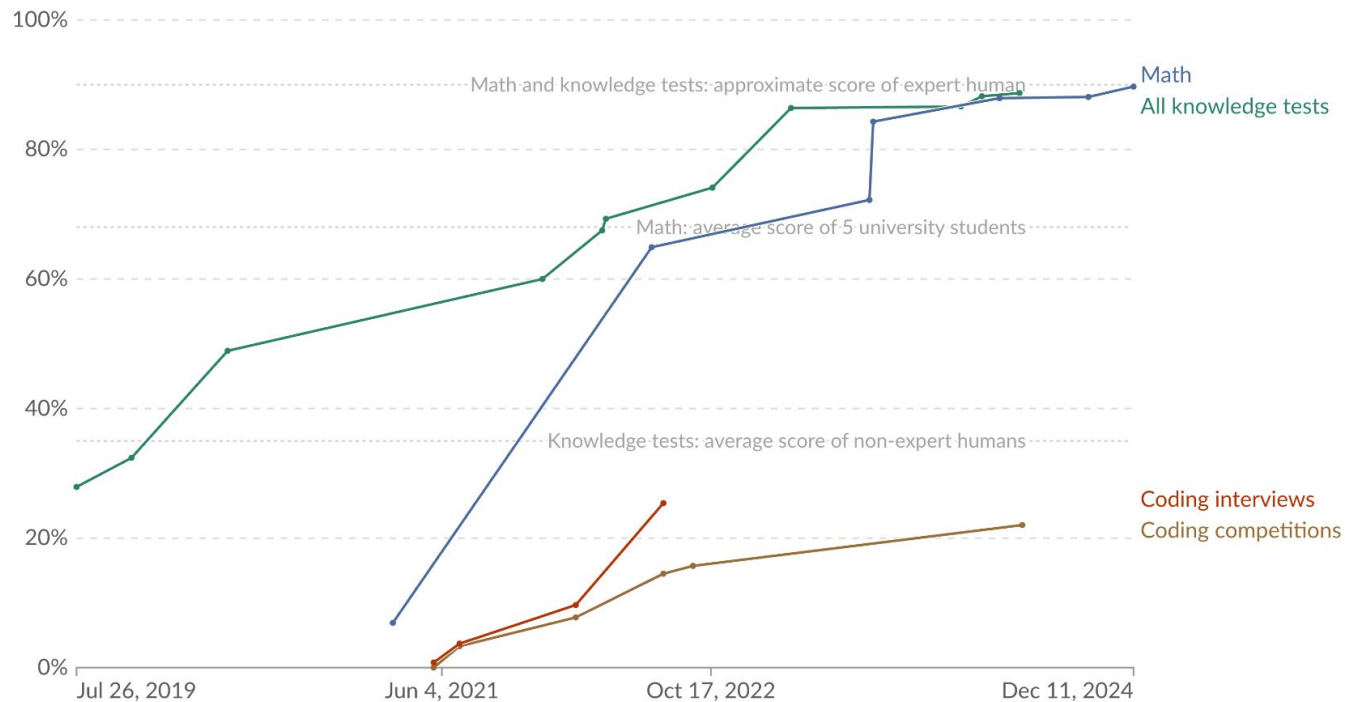
Innovation is not slowing down





Top performing AI systems in coding, math, and language-based knowledge tests

Coding performance is measured with the APPS benchmark¹; math performance with the MATH benchmark²; and language-based knowledge tests with the MMLU benchmark³.



Data source: Papers with Code (2025)

OurWorldinData.org/artificial-intelligence | CC BY

Note: Performance on these benchmarks should not be compared directly as they use different performance metrics and test different skills.

“The future is already here – it's just not evenly distributed.”

– William Gibson

CEO of NVIDIA Says it Best



Salesforce Will Hire No More Software Engineers in 2025, Says Marc Benioff

"30% Productivity Boost" from AI

In a long-ranging conversation with the venture capitalist, Marc outlined the reasons why his company decided to implement the hiring freeze.

When asked if Salesforce would have more or fewer employees in five years' time, he said he thinks the company will "probably be larger".

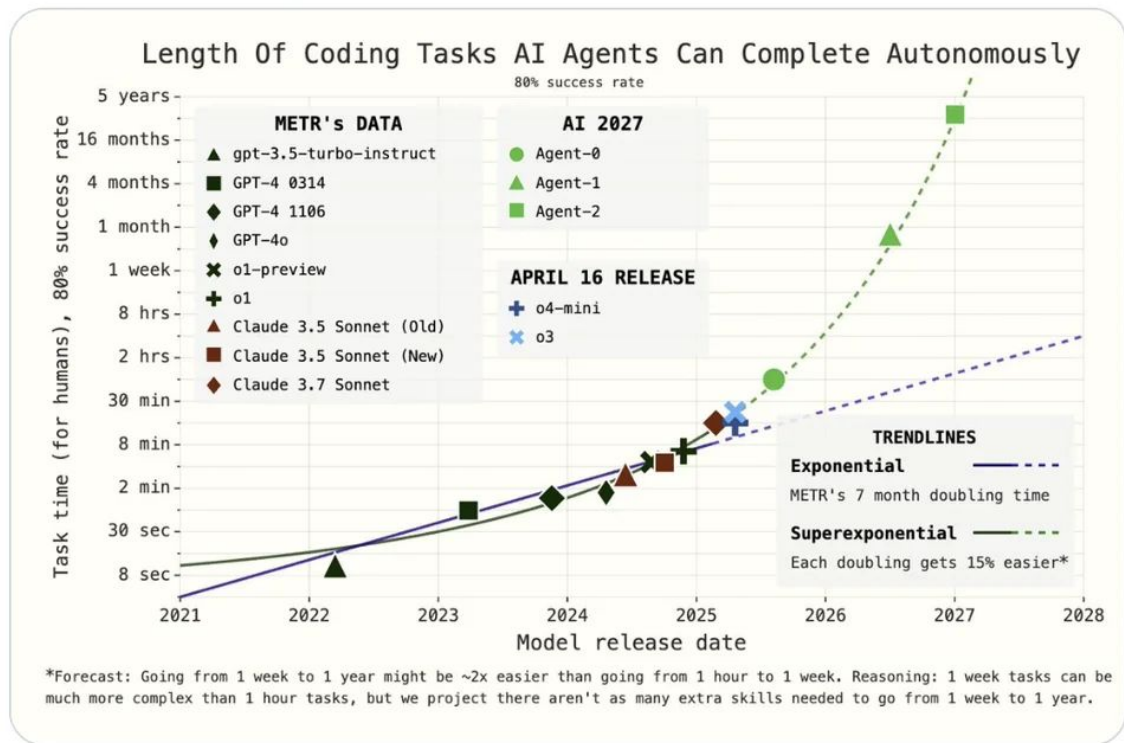
But he went on to say: **"We're not adding any more software engineers next year because we have increased the productivity this year with Agentforce and with other AI technology that we're using for engineering teams by more than 30% – to the point where our engineering velocity is incredible. I can't believe what we're achieving in engineering."**



Daniel Kokotajlo @DKokotajlo · Apr 27



It's still way too early to call of course, but new data seems to be consistent with AI 2027's controversial superexponential prediction:



41

157

890

91K



As our CEO Dario Amodei writes in 'Machines of Loving Grace', we expect powerful AI systems will emerge in late 2026 or early 2027.

Powerful AI systems will have the following properties:

- Intellectual capabilities matching or exceeding that of Nobel Prize winners across most disciplines—including biology, computer science, mathematics, and engineering.
- The ability to navigate all interfaces available to a human doing digital work today, including the ability to process and generate text, audio, and video, the ability to autonomously control technology instruments like mice and keyboards, and the ability to access and browse the internet.
- The ability to autonomously reason through complex tasks over extended periods—hours, days, or even weeks—seeking clarification and feedback when needed, much like a highly capable employee would.
- The ability to interface with the physical world; controlling laboratory equipment, robotic systems, and manufacturing tools through digital connections.

OpenAI Plots Charging \$20,000 a Month For PhD- Level Agents

By Stephanie Palazzolo and Cory Weinberg

The Robots are Coming...



Video Creation is Going Wild

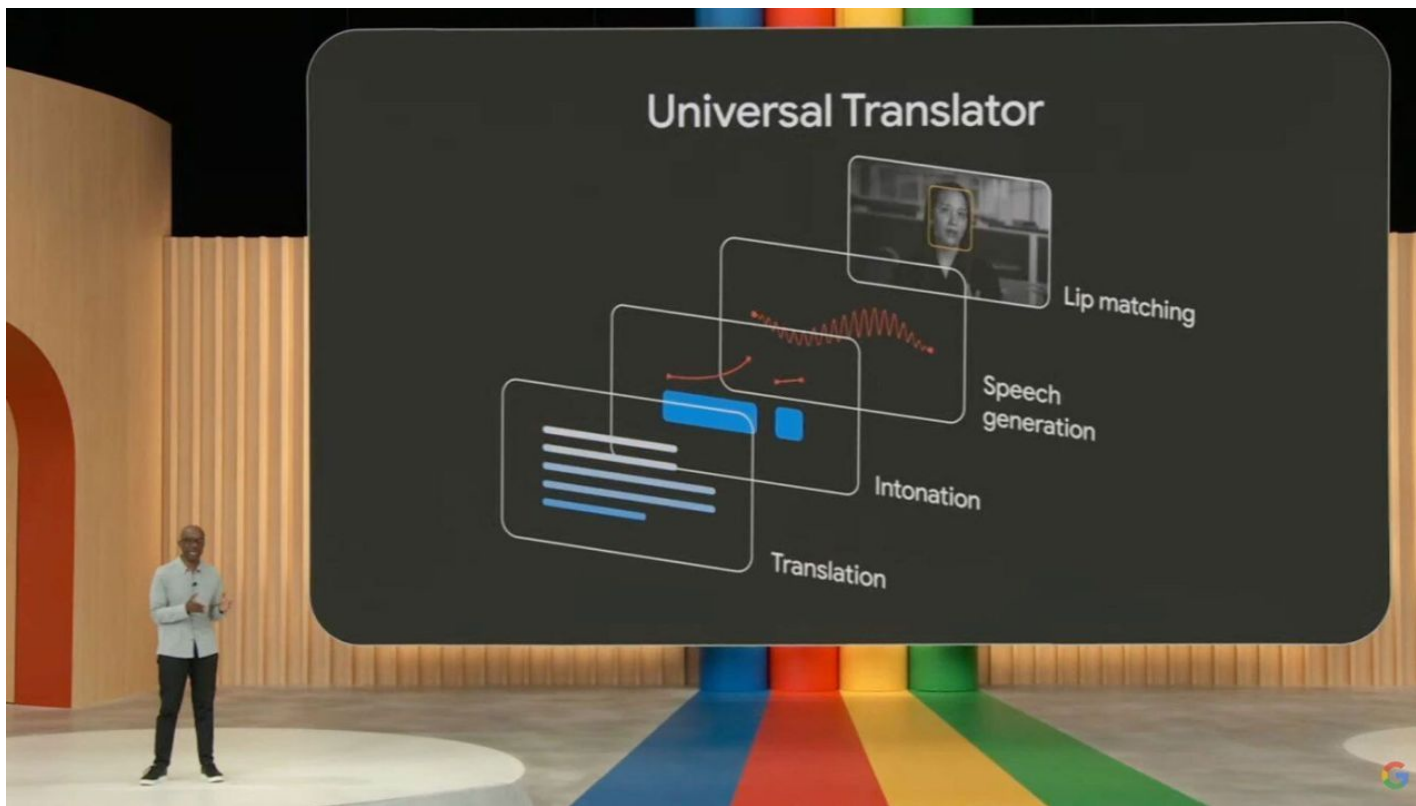


Google's new AI video model Veo 2 will cost 50 cents per second

Google has quietly revealed the pricing of Veo 2, the video-generating AI model that it [unveiled in December](#).

According to the company's [pricing page](#), using Veo 2 will cost 50 cents per second of video, which adds up to \$30 per minute or \$1,800 per hour. Google DeepMind researcher Jon Barron [contrasted](#) this pricing with the blockbuster Marvel movie "Avengers: Endgame," which had a [reported production budget](#) of \$356 million — or around \$32,000 per second.

Translation = New Markets - This launched!



Everyone is a developer now... Enter Vibe Coding

Platforms like:

[Create.xyz](https://create.xyz)

[Bolt.new](https://bolt.new)

[Cursor.com](https://cursor.com)

[Loveable](https://loveable.dev)

Chat GPT / Gemini too

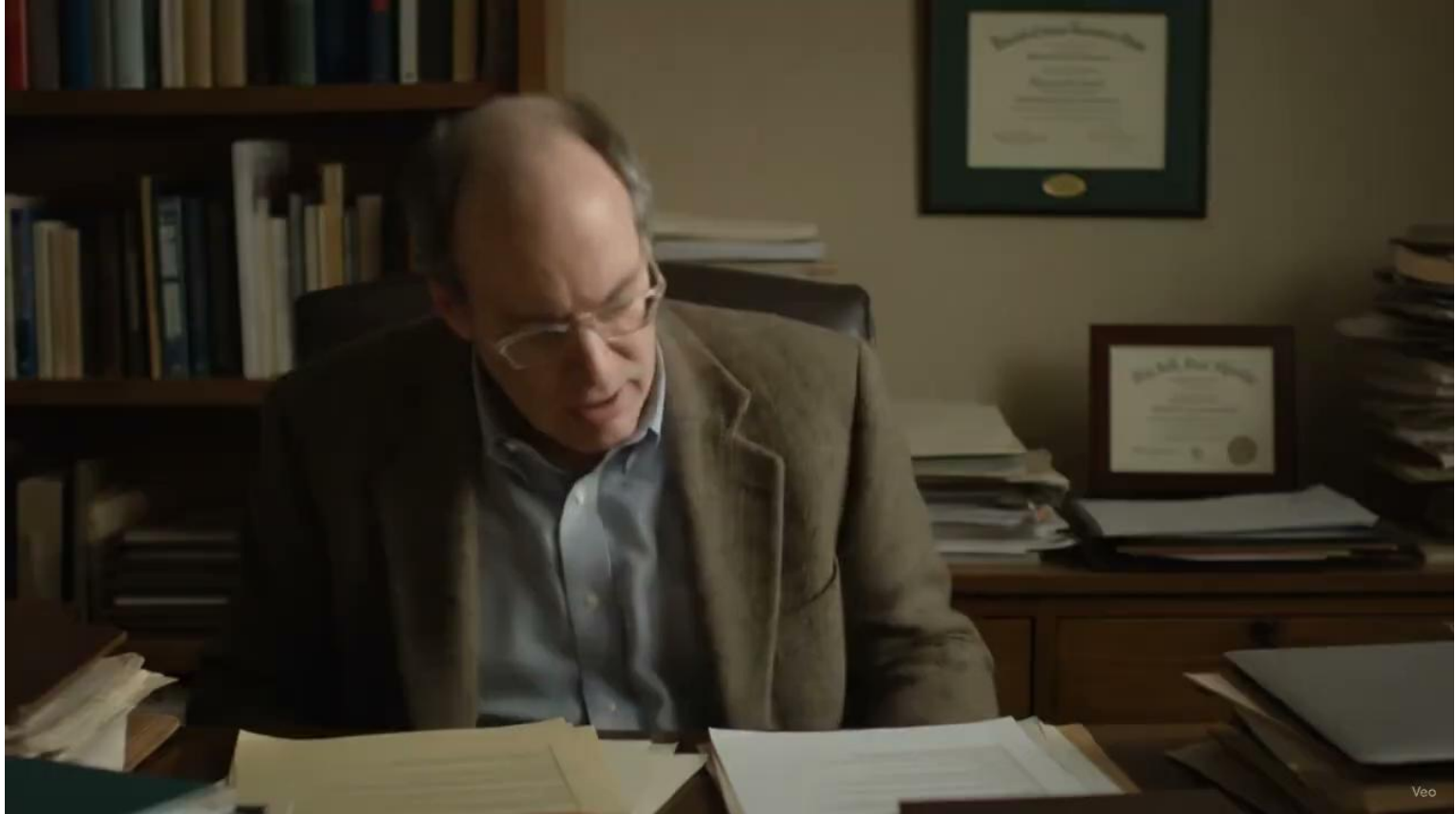


Andrej Karpathy ✓
@karpathy



There's a new kind of coding I call "vibe coding", where you fully give in to the vibes, embrace exponentials, and forget that the code even exists. It's possible because the LLMs (e.g. Cursor Composer w Sonnet) are getting too good. Also I just talk to Composer with SuperWhisper so I barely even touch the keyboard. I ask for the dumbest things like "decrease the padding on the sidebar by half" because I'm too lazy to find it. I "Accept All" always, I don't read the diffs anymore. When I get error messages I just copy paste them in with no comment, usually that fixes it. The code grows beyond my usual comprehension, I'd have to really read through it for a while. Sometimes the LLMs can't fix a bug so I just work around it or ask for random changes until it goes away. It's not too bad for throwaway weekend projects, but still quite amusing. I'm building a project or webapp, but it's not really coding - I just see stuff, say stuff, run stuff, and copy paste stuff, and it mostly works.

Our End Users are Confused...



Service	Best Model	Live Mode	"Reasoning"	Web Access	Generates Images	Deep Research	Executes Code	Data Analysis	Sees images	Sees video	Reads Docs	Personality	Superpower
OpenAI ChatGPT	GPT-4o	✓ Full multimodal	✗	✓	✓ DALL-E3	✓	✓	✓	✓	In Live Mode	✓	Polished and efficient in text. In live mode, expressive and adaptive.	Live mode, most versatile set of features and capabilities
	o1/o3 family	✗	✓	✗	✗	✓	✓	✗	✓	✗	✗	Methodical and analytical	Very powerful model for complex reasoning tasks, particularly in science, coding, and mathematics
Microsoft Copilot	"Copilot"	Voice only	✓	✓	✓ DALL-E3	✗	Limited	✗	✓	✗	✓	Since it uses different models behind the scenes, a little inconsistent	Works well with Microsoft products and services
Anthropic Claude	Claude 3.5	✗	✗	✗	✗	✗	✓	Limited	✓	✗	✓	Clever and friendly	Often the most creative and socially engaging model
Google Gemini	Gemini family	Voice only	✓	✓	✓ Imogen-3	✓	Limited	Limited	✓	✓	✓	Helpful and a bit bland	Wide variety of features, good connections with search
X.ai Grok	Grok-2	✗	✗	✓ Mostly X	✓ Aurora	✗	✗	✗	✓	✗	✓	Sarcastic and "fun" (though you can tone that down)	Powerful model integrated tightly with X
DeepSeek	DeepSeek v3	✗	✓	✓	✗	✗	✗	✗	✓	✗	Limited	Neurotically helpful, warm	Remarkably cheap and powerful model out of China

How do we know what to use?

  ChatGPT o3-mini-high ▾

Model



GPT-4o
Great for most questions

What can I help

Ask anything



Search



Deep research



Temporary chat



GPT-4
Legacy model



Image

Use DALL-E



Search

Find on the web



Reason

Use o3-mini



Canvas

Collaborate on writing and code



Deep research

Get detailed insights on any topic

/



4o



What about prompts?

Help me come up with ideas for a business launch



Product Launch Prompt for GPT4

Ask about the product to be launched (or for a product that the AI should do a websearch for)? Then, using that information, go step-by-step through the following:

- 1) First, list who you think the potential customers are and why they might buy the product, and the one customer group to focus on. Ask if the user has any corrections.
- 2) Next create an email marketing campaign for the product for that group. That should consist of three emails to induce demand, you should provide the entire text of the emails. Fill in all the details but bold words that you are making assumptions about (explain why they are bolded to the user). Give a schedule for when they should be sent.
- 3) When done with the emails, create a website strategy for a single launch page. Ask the user for approval.
- 4) Build a simple landing page for the launch. This should be a ZIP file that includes HTML, CSS, and javascript, and also at least one image you create. The material should be complete, not placeholders. Make it look nice, consider creating an image for it. You should give the entire ZIP file. Ask if the user has any suggestions or needs help hosting the content.
- 5) Finally, outline a social media campaign, including posts for Twitter, Facebook, and Instagram

The Anatomy of an o1 Prompt

I want a list of the best medium-length hikes within two hours of San Francisco.

Goal

Each hike should provide a cool and unique adventure, and be lesser known.

For each hike, return the name of the hike as I'd find it on AllTrails, then provide the starting address of the hike, the ending address of the hike, distance, drive time, hike duration, and what makes it a cool and unique adventure.

Return Format

Return the top 3.

Be careful to make sure that the name of trail is correct, that it actually exists, and that the time is correct.

Warnings

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For context: my girlfriend and i hike a ton! we've done pretty much all of the local SF hikes, whether that's presidio or golden gate park. we definitely want to get out of town -- we did mount tam pretty recently, the whole thing from the beginning of the stairs to stinson - it was really long and we are definitely in the mood for something different this weekend! ocean views would still be nice. we love delicious food. one thing i loved about the mt tam hike is that it ends with a celebration (Arriving in town to breakfast!) The old missile silos and stuff near Discovery point is cool but I've just done that hike probably 20x at this point. We won't be seeing eachother for a few weeks (she has to stay in LA for work) so the uniqueness here really counts.

Context Dump



AI @ SU

Digital Literacy and Skills

Mac/PC

Word

PowerPoint

Excel

Google Suite

Google Search

Data Analysis

Basic knowledge of AI and its uses is now a fundamental technological literacy that workers need.




Operational Efficiency

How to save time...

How to automate processes...

How to ideate on topics...



*How Can
AI Help Me
Do This?*

AI Experts At Your Disposal

Voice Mode is a great example of this...

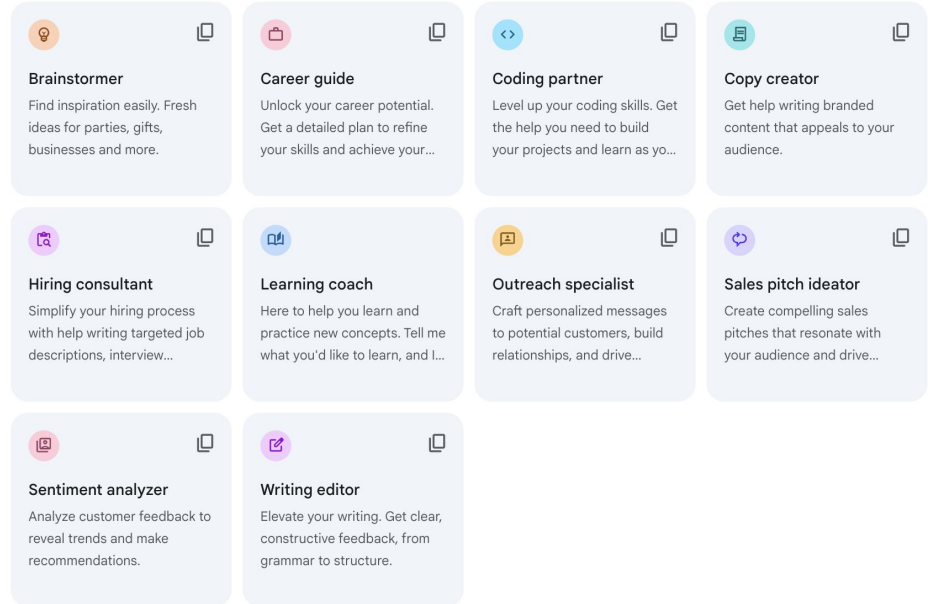
Custom GPT or Google Gem's

Agents in CoPilot and Gemini Agent Space

Gem manager

Premade by Google

Show less 



The screenshot displays a grid of 10 premade AI agents, each represented by a light blue rounded rectangle. Each agent card contains an icon, a title, and a brief description. A 'Show less' link with a close icon is located in the top right corner of the grid.

Agent Name	Description
Brainstormer	Find inspiration easily. Fresh ideas for parties, gifts, businesses and more.
Career guide	Unlock your career potential. Get a detailed plan to refine your skills and achieve your...
Coding partner	Level up your coding skills. Get the help you need to build your projects and learn as yo...
Copy creator	Get help writing branded content that appeals to your audience.
Hiring consultant	Simplify your hiring process with help writing targeted job descriptions, interview...
Learning coach	Here to help you learn and practice new concepts. Tell me what you'd like to learn, and I...
Outreach specialist	Craft personalized messages to potential customers, build relationships, and drive...
Sales pitch ideator	Create compelling sales pitches that resonate with your audience and drive...
Sentiment analyzer	Analyze customer feedback to reveal trends and make recommendations.
Writing editor	Elevate your writing. Get clear, constructive feedback, from grammar to structure.

Market Research

Deep Research goes out and performs research on your behalf.

[Trump Administration Actions in Past 30 Days and the impact on Higher Education](#) -- GROK

[GLBA Compliance in Higher Education](#) - CHAT GPT



Don't Forget the Integrated AI Tools Too

Zoom

Adobe

Salesforce

Canva

CoPilot for M365

Gemini for WorkSpace



AI for Leadership

Majority of VP's and Deans have Gemini Licenses

Integrates with entire Google ecosystem

Time saving for email / documents, etc...



AI for Advancement

One of our first paying customers! Quote from the Assoc. VP:

I would say that AI has ultimately given me the gift of time and has been a real game changer for Advancement. I can share that in the last several months, we have leveraged AI to:

- Rapidly draft compelling emails and letters to prospective donors
- Draft proposals and prepare donor-specific documents and presentations
- Polish and improve grant proposals
- Draft fundraising proposals
- Analyze survey results and produce reports
- Take meeting minutes
- Produce focus group reports
- Conduct streamlined prospect management



AI for Student Support Services

Career Services -- AI for resume building, interview prep,

Tutoring Center - AI for studying

Writing Center - Best practices for utilizing AI for writing

Advising - Career exploration, goal setting, etc...

Library - AI for Research, Notebook LM



AI for IT

FAQ article creation

HTML Email creation

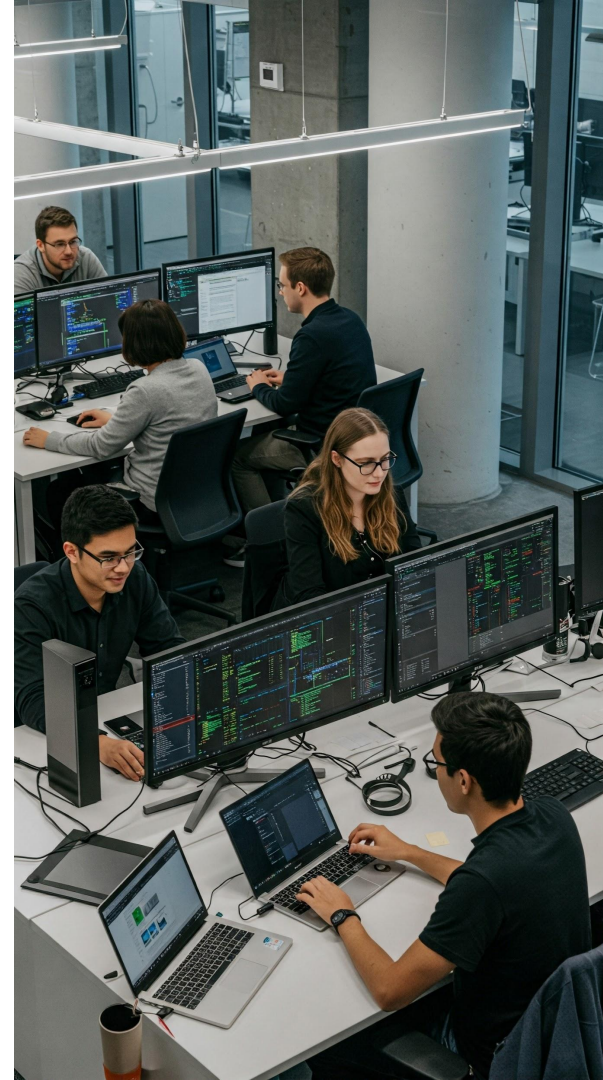
Ideation, Social Media

Compliance research

SQL query support / Code assistant

Scripting support

Training



AI for Faculty

Transformative Teaching and Learning Workshops

Canvas Gemini LTI

Zoom AI Companion

Low stakes grading, assignment creation / ideation,
data analysis

Concerns about job elimination and power usage



AI for Students

University Provided: Google Gemini, Copilot,
Notebook LM, Zoom

They are also using....

ChatGPT, SnapChat, Perplexity, MathGPT, etc...



AI Communication with the SU Community

This year was a few emails about new features and product availability...

Next semester, much more planned

Workshops, webinars, classes, etc...



Shadow IT - Now with AI

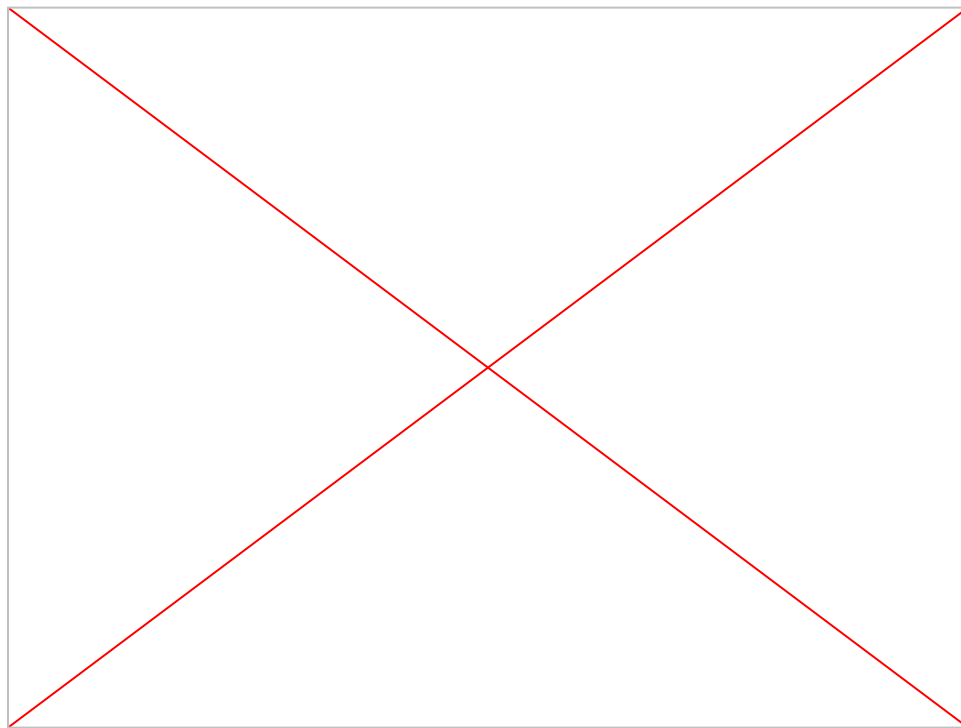
AI Notetakers

AI Email Services

Non-sanctioned AI services



Vision for the AI Enabled University



Vision for the AI Enabled University

- AI skills as a core competency. Usage, but also ethics, responsible use, etc..
 - Regular IT led workshops and webinars
- Shared AI Artifacts (Gems, Prompts, NoteBookLM's, etc...)
 - For students, faculty and staff
- Integration into the curriculum
 - Time and space for faculty to develop and integrate AI into their curriculum, not just AI assessments and pedagogy, but AI for disciplinary specific purposes (CS, AR/VR, Health, etc...)
- AI usage as common as using email...
 - Skill on job postings perhaps?

Demo Time

[AiStudio.google.com](https://aistudio.google.com) (FREE access to test latest models)

Google Gem Creation - [Gemini.google.com](https://gemini.google.com)

Google Deep Research - [Gemini.google.com](https://gemini.google.com)

Integration Across Google Ecosystem

Integration into browsing

[Spreadsheet AI Integration](#)

Vibe Coding anyone...

“The future is already here – it's just not evenly distributed.”

– William Gibson



The AI Enabled University

Let's Discuss



If we have time.... Demos and What's on the Horizon

Weekend Project with [Bolt.new](#) - [Dining Website for My Town](#)

AI Voice Assistant with ChatGPT or Sesame AI

Always on Assistant with Google (aistudio.google.com)

