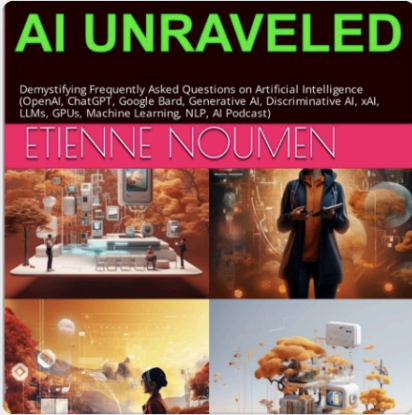


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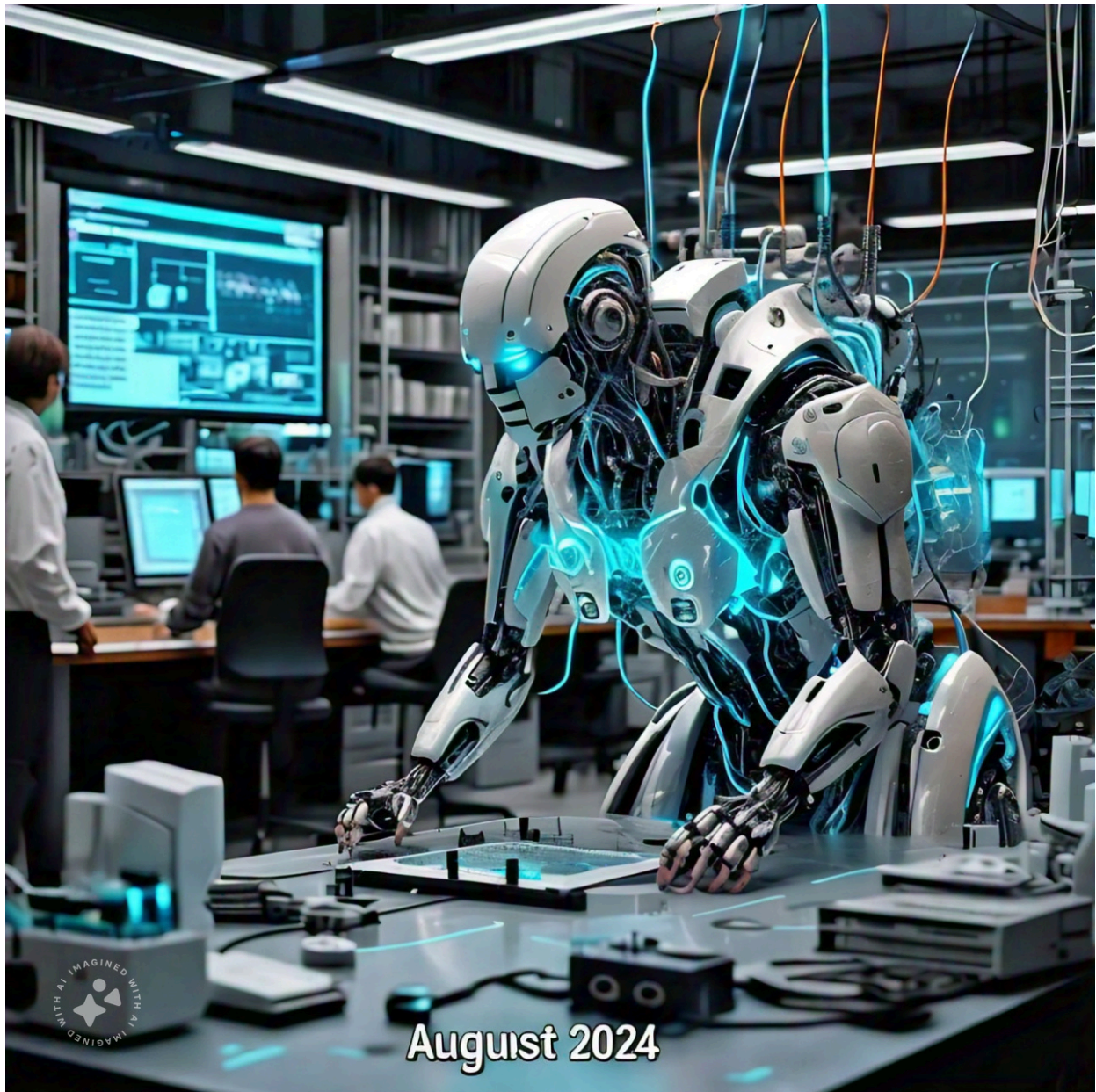
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The AI revolution continues to blaze through 2024. June was a month of monumental strides, marked by breakthroughs in quantum AI, autonomous medical drones, and natural language processing. But the AI landscape is a dynamic one, and July has already proven to be no exception.

This August, we're diving deep into the latest AI developments, from groundbreaking research to real-world applications. We'll explore how AI is reshaping industries, addressing global challenges, and redefining what's possible. Join us as we uncover the stories behind the headlines and analyze the implications of these innovations for society.

Whether you're an AI expert or just curious about the future, this blog is your go-to source for the most up-to-date insights. Stay tuned for daily updates as we navigate the exciting world of artificial intelligence together.



August 2024

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[A daily Chronicle of AI innovations on August 05th 2024.](#)

[A Daily Chronicle of AI Innovations on August 02nd 2024:](#)

[A Daily Chronicle of AI Innovations on August 01st 2024](#)

A daily Chronicle of AI innovations on August 05th 2024.



Neuralink successfully implants brain chip in second patient



OpenAI has a 'highly accurate' ChatGPT text detector, but won't release it for now

 **Elon Musk is suing OpenAI and Sam Altman again**

 **Meta AI's new Hollywood hires**

 **Google absorbs Character AI talent**

 **Tesla unveils new AI vision for robots**

 **Google takes another startup out of the AI race**

 **Google pulls AI Olympics ad after backlash**

 **Nvidia delays next AI chip due to design flaw**

 **Meta AI's new Hollywood hires**



Meta is reportedly offering millions to celebrities like Awkwafina, Judi Dench, and Keegan-Michael Key to use their voices in upcoming AI projects.

The AI voices would be used across Meta's platforms, including Facebook, Instagram, and Meta Ray-Ban smart glasses.

Meta is reportedly rushing to secure deals before its Meta Connect conference in September.

Contracts are reportedly temporary, with actors having the option to renew.

Meta has previously experimented with celebrity-inspired chatbots, though that program has ended.

In our exclusive interview with Mark Zuckerberg, he predicted that “we’re going to live in a world where there are going to be hundreds of millions or billions of different AI agents”. If it holds true, celebrity voice-powered AI could be part of Meta’s next big play to drive user engagement and growth on the platform.

Source:

<https://www.theverge.com/2024/8/3/24212580/meta-ai-voice-assistant-celebrity-voices-judi-dench-awkwafina-keegan-michael-key>

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💰 Google absorbs Character AI talent



Google has signed a non-exclusive licensing agreement with AI startup Character AI for its large language model technology, while also reabsorbing the startup's co-founders and key talent back into its AI team.

Character AI co-founders Noam Shazeer and Daniel De Freitas return to Google, their former employer.

Google gains a non-exclusive license to Character AI's language model technology.

About 30 of Character AI's 130 employees, mainly those working on model training and voice AI, will join Google's Gemini AI efforts.

Character AI will switch to open-source models like Meta's Llama 3.1 for its products, moving away from in-house models.

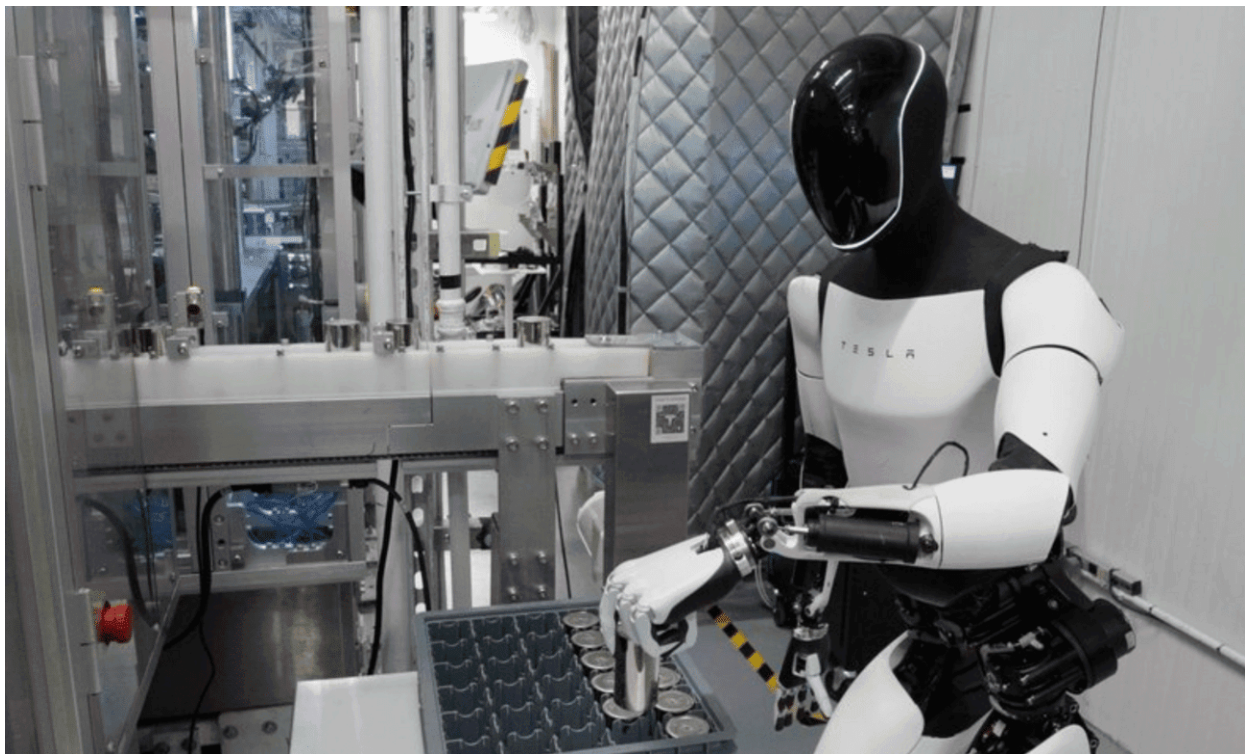
This deal highlights the intensifying race to secure top AI talent, mirroring Microsoft's recent deal with Inflection and Amazon's deal with Adept. As AI becomes increasingly critical to tech companies' futures, these talent grabs could reshape the landscape, while raising antitrust concerns.

Source:

<https://www.reuters.com/technology/artificial-intelligence/google-hi>

[024-08-02](#)

Tesla unveils new AI vision for robots



Tesla just filed a patent for an AI-powered vision system that could transform how autonomous robots perceive and navigate their environment using only camera inputs.

The system uses a single neural network to process camera data and output detailed 3D environment information without LiDAR or radar.

It divides space into 3D voxels, predicting occupancy, shape, semantic data, and motion for each in real time.

The tech is designed to run on a robot's onboard computer, enabling immediate decision-making.

This system could be implemented in both Tesla's vehicles and humanoid robots like Optimus.

By relying solely on camera inputs and onboard processing, Tesla's new vision system could enable robots to navigate diverse environments more efficiently and adapt to changes in real time. This would eliminate the need for extensive pre-mapping and accelerate the arrival of affordable, autonomous robots.

Source: https://x.com/seti_park/status/1819406901257568709

Neuralink successfully implants brain chip in second patient

Elon Musk's brain-computer interface startup, Neuralink, has commenced its second human trial, revealing that the implant is successfully functioning with about 400 electrodes providing signals. Musk claimed that Neuralink could bestow exceptional abilities such as thermal and eagle vision, and potentially restore blindness and cure neurological disorders in humans. Despite some initial problems and federal investigations into animal testing practices, Neuralink has over 1,000 volunteers for further trials and plans to implant chips in up to eight more patients by the end of 2024. Source:

<https://cointelegraph.com/news/musk-neuralink-give-people-superpowers-2nd-human-gets-implant>

 **OpenAI has a 'highly accurate' ChatGPT text detector, but won't release it for now**

OpenAI has an AI-detection tool that is highly effective at identifying AI-generated text, but the company hesitates to release it to avoid upsetting its user base. The tool, reportedly 99.9% effective, is much more accurate than previous detection algorithms and utilizes a proprietary watermarking system to identify AI-created content.

Despite its potential to aid educators in spotting AI-generated homework, OpenAI is concerned about potential deciphering of their technique and biases against non-native English speakers. Source:

<https://gizmodo.com/openai-afraid-to-release-chatgpt-detection-tool-that-might-piss-off-cheaters-2000483147>

Elon Musk is suing OpenAI and Sam Altman again

Elon Musk has filed a new lawsuit against OpenAI, Sam Altman, and Greg Brockman, accusing them of breaching the company's founding mission to benefit humanity with artificial intelligence. The lawsuit alleges that Altman and Brockman manipulated Musk into co-founding OpenAI by promising it would be safer and more

transparent than profit-driven alternatives. Musk previously withdrew a similar lawsuit in June, but the new suit claims that OpenAI violated federal racketeering laws and manipulated its contract with Microsoft.

Source:

<https://www.theverge.com/2024/8/5/24213557/elon-musk-openai-lawsuit-sam-altman-greg-brockman-revived>



Google takes another startup out of the AI race

Founders of Character.AI, Noam Shazeer and Daniel De Freitas, along with other team members, are rejoining Google's AI unit DeepMind, the companies announced on Friday. Character.AI reached a \$1 billion valuation last year and plans to offer a nonexclusive license of its large language models to Google, which will help fund its growth and the development of personalized AI products. The founders, who left Google in 2021 due to disagreements about advancing chatbot technologies, are now returning amid a competitive AI landscape and will contribute to DeepMind's research team. Source:

<https://www.cnn.com/2024/08/02/ex-google-engineers-from-character.ai-re-join-company-with-ai-partnership-.html>

Google pulls AI Olympics ad after backlash

Google has withdrawn its “Dear Sydney” ad from the Olympics after receiving significant backlash from viewers and negative feedback on social media. The controversial advertisement featured a father using the Gemini AI to write a fan letter to Olympic track star Sydney McLaughlin-Levrone on behalf of his daughter, instead of composing it together. Critics argued that the ad missed the essence of writing a personal fan letter and feared it promoted AI as a substitute for genuine human expression. Source:

<https://www.theverge.com/2024/8/2/24212078/google-gemini-olympics-ad-backlash>

Nvidia delays next AI chip due to design flaw

The production of Nvidia's "Blackwell" B200 AI chips has been delayed by at least three months due to a late-discovered design flaw, according to sources. The B200 chips are successors to the highly sought-after H100 chips and were expected to power many AI cloud infrastructures, but now face production setbacks. Nvidia is collaborating with Taiwan Semiconductor Manufacturing Company to address the issue, with large-scale shipments now anticipated in the first quarter of next year. Source:

<https://www.theverge.com/2024/8/3/24212518/nvidia-ai-chip-delay-blackwell-b200-microsoft-amazon-google-openai-meta-artificial-intelligence>

An autonomous robot dentist performed the world's first human dental procedure, preparing a tooth for a crown in about 15 minutes — significantly faster than human dentists.

Source:

<https://newatlas.com/health-wellbeing/robot-dentist-world-first/>

UC Berkeley unveiled the 'Berkeley Humanoid', a 2 ft. 9 in. humanoid research platform designed for learning-based control and robust locomotion over various terrains.

Source:

<https://berkeley-humanoid.com/>

Britain canceled \$1.7 billion worth of computing infrastructure projects, including plans for an exascale computer, dealing a setback to the country's AI ambitions.

Source:

<https://www.cnbc.com/2024/08/02/uk-cancels-1point3-billion-of-tech-and-ai-infrastructure-projects.html>

New AI Job Opportunities on August 05th 2024



Luma AI — Senior Backend Engineer — Payments:

<https://jobs.lever.co/LumaAi/de15d5e7-eec3-498c-b8d1-57cbfb423fc8/apply>

 Limitless AI — Principle Design Engineer:

<https://jobs.therundown.ai/companies/limitless-ai-2059127>

 Cohere — Head of Product Marketing — AI & Language Models:

<https://jobs.lever.co/cohere/o8822bc4-fa97-4ae4-8cde-1da99c1bce87/apply>



OpenAI — Workplace Events Coordinator:

<https://jobs.ashbyhq.com/openai/boe7cfff-bof7-43e0-a58d-7fed4e89defd?>

A Daily Chronicle of AI Innovations on August 02nd 2024:

 **Gemma Scope: helping the safety community shed light on the inner workings of language models.**

 **Gemini 1.5 Pro tops chatbot leaderboard**



AI-assisted content creation with Llama 3.1



Stability AI's instant 3D asset generator



AI startup says scraping songs on internet is 'fair use'



Nvidia faces two DOJ antitrust probes over market dominance



Delta CEO: 'When was the last time you heard of a big outage at Apple?'



Google slashes Gemini 1.5 Flash prices, igniting LLM price war



[Gemini 1.5 Pro tops chatbot leaderboard](#)



For the first time ever, Google DeepMind's experimental Gemini 1.5 Pro has claimed the top spot on the AI Chatbot Arena leaderboard, surpassing OpenAI's GPT-4o and Anthropic's Claude-3.5 with an impressive score of 1300.

- Gemini 1.5 Pro (experimental o801) gathered over 12K community votes during a week of testing on the LMSYS Chatbot Arena.

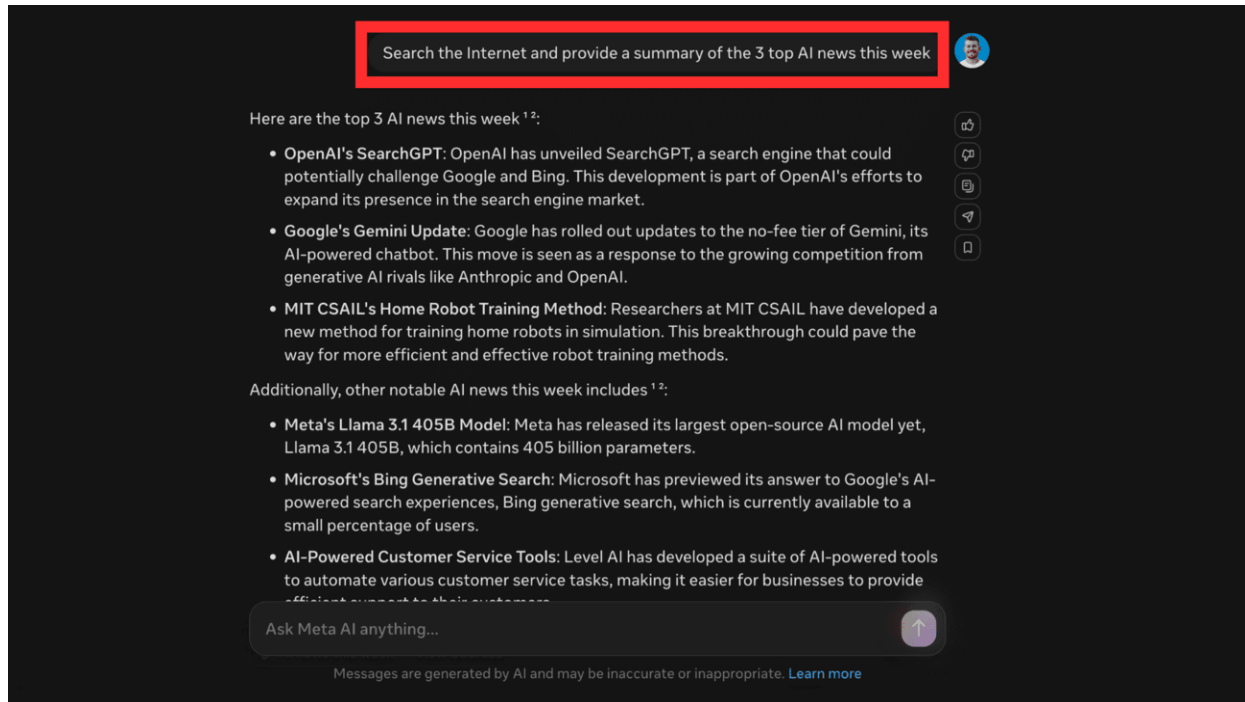
- The new experimental model achieved the #1 position on both the overall and vision leaderboards.
- The experimental version is available for early testing in Google AI Studio, the Gemini API, and the [LMSYS Chatbot Arena](#).
- Google DeepMind hasn't disclosed specific improvements, but promises more updates soon.

Without any announcement, Gemini 1.5 Pro unexpectedly rose to the top of the overall AI chatbot leaderboard — by a whopping 14 points. The leap means that either Google just quietly established itself as the new leader in the LLM space, or we're on the cusp of major competitive responses from industry rivals.

Source: <https://x.com/lmsysorg/status/1819048821294547441?>



[AI-assisted content creation with Llama 3.1](#)



Meta's Llama 3.1 allows users to search the internet and train the AI to write in their personal style, saving you time on content creation and research processes.

1. Access Llama 3.1 through [Meta AI](#) and log in with your Facebook or Instagram account.
2. Use the internet search feature by asking questions like "Summarize the Olympics highlights this week."

3. Train Llama 3.1 in your voice by providing a sample of your best content and instructing it to mimic your style.
4. Generate content by asking Llama 3.1 to create posts on your desired topics.

Pro tip: The more examples and feedback you provide, the better Llama 3.1 will become at emulating your unique writing style!

🎨 [Stability AI's instant 3D asset generator](#)



Stability AI just [introduced](#) Stable Fast 3D, an AI model that generates high-quality 3D assets from a single image in just 0.5 seconds — potentially reshaping industries from gaming to e-commerce.

- The model creates complete 3D assets, including UV unwrapped mesh, material parameters, and albedo colors with reduced illumination bake-in.
- It outperforms previous models, reducing generation time from 10 minutes to 0.5 seconds while maintaining high-quality output.
- Stable Fast 3D is available on [Hugging Face](#) and through Stability AI's API, under Stability AI's Community License.

The leap from 10 minutes to 0.5 seconds for high-quality 3D asset generation is nothing short of insane. We're entering a world where video games will soon feature infinite, dynamically generated assets, e-commerce will have instant 3D product previews, architects will see designs in real-time, and so much more.

 **Gemma Scope: helping the safety community shed light on the inner workings of language models.**



Explainable AI: One of the most requested feature for LLMs is to understand how to take internal decisions. This is a big step towards interpretability “This is a barebones tutorial on how to use Gemma Scope, Google DeepMind’s suite of Sparse Autoencoders (SAEs) on every layer and sublayer of Gemma 2 2B and 9B. Sparse Autoencoders are an interpretability tool that act like a “microscope” on language model activations. They let us zoom in on dense, compressed

activations, and expand them to a larger but sparser and seemingly more interpretable form, which can be a very useful tool when doing interpretability research!”

What else is happening in AI on August 02nd 2024

Google [introduced](#) three new AI features for Chrome, including Google Lens for desktop, Tab compare for product comparisons, and an improved browsing history search. Source:

<https://blog.google/products/chrome/google-chrome-ai-features-august-2024-update>

GitHub [launched](#) GitHub Models, a new platform allowing developers to access and experiment with various AI models directly on GitHub, including a playground, Codespaces integration, and deployment. Source:

<https://github.blog/news-insights/product-news/introducing-github-models>

Healx, an AI-enabled drug discovery startup, [raised](#) \$47 million in Series C funding and received regulatory clearance to start Phase 2 clinical trials for a new rare disease treatment in the U.S.

Source:

<https://techcrunch.com/2024/08/01/healx-an-ai-enabled-drug-discovery-platform-for-rare-diseases-raises-47m>

Google is facing [backlash](#) over its Gemini AI Olympics-themed ad, with critics arguing it promotes overreliance on AI tools at the expense of children's learning and creativity. Source:

<https://www.cbsnews.com/news/google-gemini-ai-dear-sydney-olympics-ad>

Microsoft officially [listed](#) OpenAI as a competitor in AI offerings and search advertising in its annual report, despite their long-term partnership and Microsoft's significant investment in the company.

Source:

<https://www.cnbc.com/2024/07/31/microsoft-says-openai-is-now-a-competitor-in-ai-and-search.html>

Character AI [open-sourced](#) Prompt Poet, their innovative approach to prompt design, aiming to revolutionize how AI interactions are built and managed in production environments. Source:

<https://research.character.ai/prompt-design-at-character-ai/>

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AI startup says scraping songs on internet is 'fair use'

- Suno admitted in court that its AI music generator was trained on tens of millions of music files from the open internet, encompassing almost all accessible quality recordings.
- The company is making a Fair Use argument in court, stating that AI training on copyrighted songs should be allowed without needing permission or providing compensation to creators.
- Suno claims its goal is to democratize music creation with AI tools, fighting against record label monopolies that prevent AI training on copyrighted material through restrictive licensing agreements.

Source:

<https://www.404media.co/ai-music-generator-suno-admits-it-was-trained-on-essentially-all-music-files-on-the-internet/>

Nvidia faces two DOJ antitrust probes over market dominance

- The US Department of Justice has launched two separate antitrust investigations into Nvidia, focusing on its AI-related business conduct and the acquisition of Run:ai.
- One investigation will scrutinize Nvidia's recent \$700 million purchase of Run:ai, examining potential anticompetitive concerns tied to the acquisition of the Israeli GPU management software startup.
- The second probe will investigate allegations that Nvidia leverages its AI chip market dominance to pressure customers into avoiding competitors and overcharges those who opt for chips from rivals like AMD and Intel.

Source:

<https://www.theverge.com/2024/8/2/24211810/nvidia-doj-antitrust-probes-ai-market-dominance>

Google slashes Gemini 1.5 Flash prices, igniting LLM price war.

- On August 12, 2024, Google will slash the prices of its Gemini 1.5 Flash model by 80%, making it significantly more affordable than OpenAI's GPT-4o mini.
- The new costs will be \$0.075 per million input tokens and \$0.3 per million output tokens, nearly cutting in half the prices offered by OpenAI's competing model.
- The aggressive price cut is expected to pose challenges for smaller AI startups, while Google also expands Gemini 1.5 Flash's capabilities to over 100 languages and offers general availability of provisioned throughput to ensure scalability and cost predictability.

Source:

<https://www.neowin.net/news/google-slashes-gemini-15-flash-prices-igniting-llm-price-war/>

A Daily Chronicle of AI Innovations on August 01st 2024

 **Microsoft declares OpenAI as competitor**

 **Meta is proving there's still big AI hype on Wall Street**

 **Reddit CEO says Microsoft needs to pay to search the site**

 **Google launches three 'open' AI models prioritizing safety and transparency**

 **Google's tiny AI model beats GPT-3.5**

 **Taco Bell's AI drive-thru**

 **AI reprograms brain cancer cells**

🌟 Google's tiny AI model bests GPT-3.5

🌮 Taco Bell's AI drive-thru

💥 Microsoft declares OpenAI as competitor

- Microsoft has officially listed OpenAI as a competitor in AI, search, and news advertising in its latest annual report, signalling a shift in their relationship.
- Despite Microsoft being the largest investor and exclusive cloud provider for OpenAI, both companies are now encroaching on each other's market territories.
- An OpenAI spokesperson indicated that their competitive dynamic was always expected as part of their partnership, and Microsoft still remains a strong partner for OpenAI.

Source:

<https://www.cnbc.com/2024/07/31/microsoft-says-openai-is-now-a-competitor-in-ai-and-search.html>

Meta is proving there's still big AI hype on Wall Street

- Meta's shares surged by about 7% in extended trading after surpassing Wall Street's revenue and profit expectations and providing an optimistic forecast for the current period.
- The company reported a 22% increase in second-quarter revenue to \$39.07 billion and a 73% rise in net income, attributing the growth to gains in the digital ad market and cost-cutting measures.
- Meta continues to invest heavily in AI and VR technologies, with plans for significant capital expenditure growth in 2025 to support AI research and development, despite a broader downsizing effort.

Source:

<https://www.cnbc.com/2024/07/31/meta-earnings-q2-2024.html>

 **Google launches three 'open' AI models prioritizing safety and transparency**

- Google has unveiled three new models to the Gemma 2 lineup, building on the original models released in June 2024, focusing on performance and safety enhancements.
- The first addition, Gemma 2 2B, provides improved capabilities and is adaptable for various devices, while ShieldGemma and Gemma Scope focus on content safety and model interpretability, respectively.
- These new tools and models are available on platforms like Kaggle and Hugging Face, promoting broader use and development within the AI community with a focus on responsible innovation.

Source:

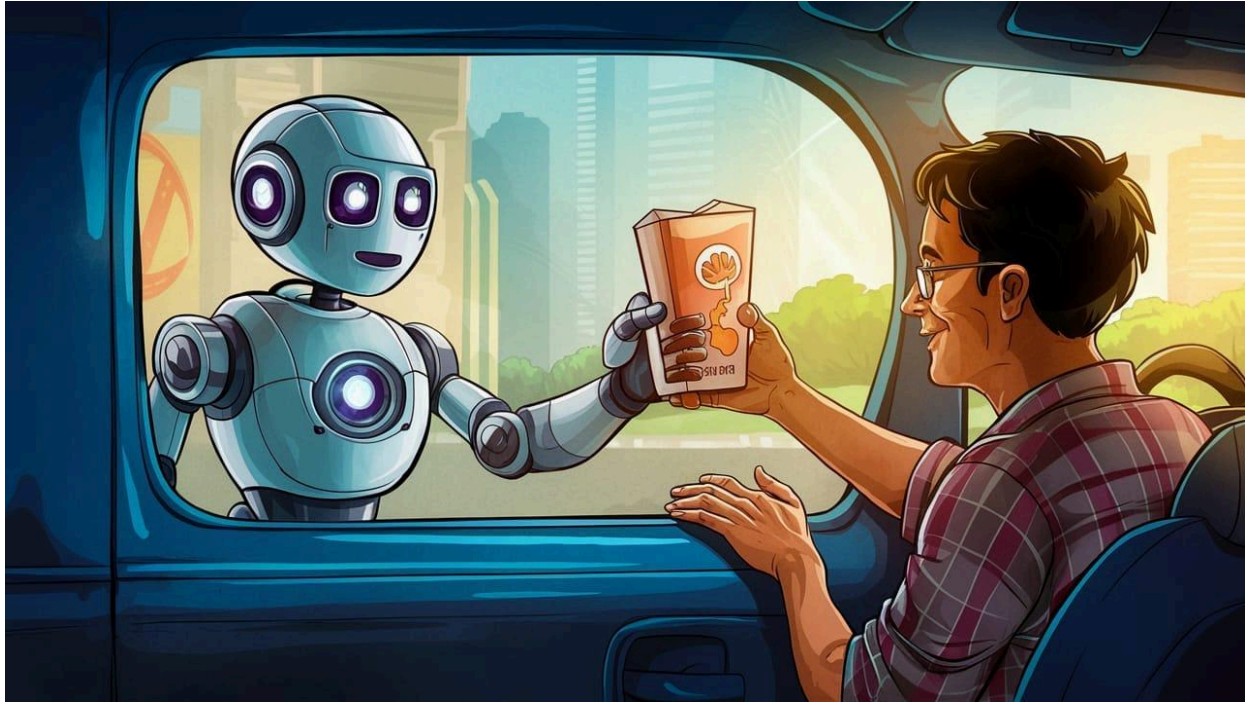
<https://techmonitor.ai/technology/ai-and-automation/google-expands-gemma-2>

 **AI reprograms brain cancer cells**



- Researchers at USC made a breakthrough using AI to reprogram glioblastoma cells into immune-activating dendritic cells in mouse models, potentially revolutionizing treatment for the deadly brain cancer.
- Glioblastoma is the deadliest adult brain cancer, with less than 10% of patients surviving five years after diagnosis.
- AI identified genes that can convert glioblastoma cells into dendritic cells (DCs), which sample cancer antigens and activate other immune cells to attack the tumor.

- In mouse models, this approach increased survival chances by up to 75% when combined with immune checkpoint therapy.
- Researchers have also identified human genes that could potentially reprogram human glioblastoma cells, paving the way for future clinical trials.
- By turning cancer cells against themselves, this new research offers a novel way to fight tumors from within. If the 75% increased survival chances in mice translate to humans, this could not only revolutionize glioblastoma treatment but potentially open doors for similar approaches in other hard-to-treat cancers.
- Source:
<https://www.news-medical.net/news/20240731/AI-reprograms-glioblastoma-cells-into-dendritic-cells-for-cancer-immunotherapy.aspx>



Taco Bell's parent company, Yum Brands, just [announced](#) plans to roll out AI-powered drive-thru ordering at hundreds of restaurants in the U.S. by the end of 2024, with ambitions for global implementation.

- The AI understands orders, auto-inputs them into the system, and even suggests additional items — potentially increasing sales through upselling.
- Over 100 Taco Bell restaurants in the U.S. already use voice AI in drive-thrus.

- The company has been testing the AI for over two years and claims it has outperformed humans in accuracy, reduced wait times, and decreased employee workload.
- Rivals like Wendy's and White Castle are also experimenting with AI ordering, while McDonald's recently ended its IBM partnership for similar tech.

If Taco Bell's positive results on their two-year test are any indication, this large-scale AI implementation could change the way fast-food chain businesses operate and how we order food at drive-thrus.

However, the success (or failure) of this rollout could set the tone for the entire industry's adoption.

Source:

<https://www.cnbc.com/2024/07/31/taco-bell-to-roll-out-ai-drive-thru-ordering-in-hundreds-of-locations.html>

✨ Google's tiny AI model bests GPT-3.5



Google just [unveiled](#) Gemma 2 2B, a lightweight AI model with just 2B parameters that outperforms much larger models like GPT-3.5 and Mixtral 8x7B on key benchmarks.

- Gemma 2 2B boasts just 2.6B parameters, but was trained on a massive 2 trillion token dataset.
- It scores 1130 on the [LMSYS](#) Chatbot Arena, matching GPT-3.5-Turbo-0613 (1117) and Mixtral-8x7b (1114) — models 10x its size.

- Other notable key benchmark scores include 56.1 on MMLU and 36.6 on MBPP, beating its predecessor by over 10%.
- The model is open-source, and developers can download the model's weights from Google's [announcement](#) page.

As we enter a new era of on-device, local AI, lightweight and efficient models are crucial for running AI directly on our phones and laptops. With Gemma 2 beating GPT-3.5 Turbo at just 1/10th the size, Google isn't just showing what's possible — they're cementing their position as the leader in the small model space.

Source:

<https://developers.googleblog.com/en/smaller-safer-more-transparent-advancing-responsible-ai-with-gemma>

Google [expanded](#) access to its “About this image” tool, making it available through Circle to Search and Google Lens, allowing users to quickly get context on images they encounter online or via messaging.

Source:

<https://blog.google/products/search/google-about-this-image-update-july-2024>

Vimeo launched an AI-powered video translation tool that can translate video, audio, and captions into multiple languages while replicating the original speakers' voices.

Source:

<https://finance.yahoo.com/news/vimeo-announces-ai-powered-video-123000755.html>

NEURA, a German robotics company, released a new video showcasing their humanoid robot 4NE-1 performing tasks like chopping vegetables, ironing cloths, solving puzzles, and more.

Source:

<https://x.com/TheHumanoidHub/status/1818726046633804184>

Synthesia introduced “Personal Avatars,” AI-generated lifelike avatars created from brief webcam or phone footage, allowing users to create short-form videos for social media in multiple languages.

Source: <https://www.synthesia.io/features/custom-avatar/persona>

San Francisco supervisors banned the use of certain AI rental software like RealPage and Yardi — which were allegedly used by some landlords in the city to set higher rent prices based on competitor data.

Source:

<https://www.nbcbayarea.com/news/local/making-it-in-the-bay/sf-landlords-using-ai/3609211>

A study from the University of Leeds found that AI could help predict the risk of bowel cancer returning in patients, potentially assisting doctors in identifying high-risk cases and avoiding unnecessary chemotherapy.

Source:

<https://www.shropshirestar.com/news/uk-news/2024/07/31/ai-could-predict-patients-risk-of-bowel-cancer-returning-study-finds>

Baidu's Improving Retrieval Augmented Language Model with Self-Reasoning:

The paper presents advancements in language models that enhance retrieval capabilities through self-reasoning.

Source: <https://arxiv.org/abs/2407.19813>

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