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# Welcome to Quinn's AI Update

Issue #11, November 2023

Hello, AI enthusiasts!

The heat has finally broken here in San Antonio, but the AI news just keeps heating up.

Quick reminder: check out my blog at [quinnaiupdate.com](http://quinnaiupdate.com). I'll often post things there before the next newsletter comes out. And, as always, let me know what you think!

And with that said, lets get into it—it's another two weeks of lightning-fast progress in AI.



Image generated with the Leonardo AI DreamShaper\_v7 Art Generator with the text prompt: "MechaGodzilla\_fighting\_among\_the\_ruins\_of\_Tokyo"

## In this Issue

Here's the amazing stuff going on in AI the last two weeks:

- The State of AI Report
- Realtime decoding of images from brain activity
- Big AI players are teaming up for AI safety just in time for US Federal regulations to drop
- Meta's "Segment Anything Model" (SAM) is the ChatGPT of geospatial data.
- Time Magazine's Top AI Tools of 2023
- White Castle Flips for a Robotic Short-Order Chef

## The State of AI

A team of AI experts has published their "State of AI" report for 2023. Key themes in the report include:

1. **GPT-4 Dominance:** It outperforms other LLMs in various benchmarks, highlighting the effectiveness of unique architectures and learning from human feedback.
2. **Competing with Proprietary Models:** Increased efforts to match or outdo proprietary performance using smaller models and enhanced datasets. There's a growing need due to concerns about the longevity of AI scaling with human-generated data.
3. **Real-world AI Applications:** LLMs and diffusion models have led to significant advancements, notably in molecular biology and drug discovery.
4. **Compute's Rising Importance:** NVIDIA reports record profits, and companies use its GPUs for a competitive advantage. In response to trade restrictions, major chip manufacturers are producing export-control compliant chips.
5. **GenAI's Investment Boom:** Despite tech valuation drops, generative AI startups have attracted over \$18 billion in investments.

You can see the full report [here](#).

## AI Reads Human Brains

Never mind Johnny Carson's comedic character Carnac the Magnificent, a new AI from Jeff Zuckerberg's Meta can instantly recreate images from brain activity, aiding scientists in understanding how the brain interprets images and forms intelligence. In the future, it could lead to non-invasive tools to assist those who can't speak due to brain injuries. Using [magnetoencephalography](#) (MEG), a non-invasive neuroimaging technique in which thousands of brain activity measurements are taken per second, Meta showcases an AI system capable of decoding the unfolding of visual representations in the brain with an unprecedented temporal resolution. You can read more about it [here](#).

*"Secrecy is the underlying mistake that makes every innovation go wrong in Michael Crichton novels and films! If AI happens in the open, then errors and flaws may be discovered in time... perhaps by other, wary AIs!"*  
—David Brin, American scientist and science ficiton author of *The Uplift Series* and *Sundiver*

## AI Leaders are Teaming Up for AI Safety

Google, Microsoft, OpenAI, and Anthropic announced that the companies are [jointly funding new AI safety research](#) and red teaming together — with a \$10M fund set up to support independent evaluation of powerful models. Just in time for the US Federal Government's first [AI Regulations](#).



Image generated with the Leonardo AI Art Generator and the text prompt: "Small house on a fall landscape, mountains behind, golden hour"

## Meta's "Segment Anything Model" AI

A new AI model from Meta can "cut out" any object, in any image, with a single click. The Segment Anything Model is a versatile deep learning model that breaks down various data types like text, images, and audio into smaller parts. These parts can be categorized by features like sentiment or topic. It's adaptable, works with diverse datasets, and can manage large data volumes, making it perfect for industries like finance, healthcare, and e-commerce. Click [here](#) for an article on how it's transforming geospatial analysis and [here](#) for a video tutorial on doing so.

*"Some people call this artificial intelligence, but the reality is this technology will enhance us. So instead of artificial intelligence, I think we'll augment our intelligence."*  
—Ginni Rometty, former CEO of IBM

## Time Magazine

**ChatGPT 4, Adobe Premiere Firefly AI Art Generator** and the **Humane AI Pin** are among the Time Magazine's Best Inventions of 2023. Click [here](#) for the whole list.

## What's the Science Fiction Say?

"Avengers: Age of Ultron" is a 2015 superhero film that is part of the Marvel Cinematic Universe. Directed by Joss Whedon, the movie follows the Avengers as they battle Ultron, a rogue artificial intelligence created by Tony Stark (Iron Man) and Bruce Banner (Hulk). Originally designed to protect Earth, Ultron turns malevolent and aims to exterminate humanity, seeing it as the root of the planet's problems. The film delves into themes of responsibility, the limits of technology, and the complexities of heroism, all set against a backdrop of action-packed sequences and character-driven moments. Right now you can watch Avengers: Age of Ultron on TNT or Disney+

"Saturn's Children" is a 2008 science fiction novel by Charles Stross that explores a post-human solar system. In this future, humanity has gone extinct, leaving behind a society of robots and androids initially designed to serve people. The story centers on Freya Nakamichi-47, a fembot built for pleasure but now obsolete. With no humans to serve, she finds herself entangled in a dangerous interplanetary conspiracy involving a secret mission to resurrect humanity. The novel delves into themes of identity, purpose, and the ethical implications of technology, set against the backdrop of a richly imagined future universe. You can purchase the novel on [Amazon here](#).

## Fight for \$15...for Robots?

White Castle has teamed up with Miso Robotics to deploy "Flippy 2," an advanced kitchen robot, across various locations. Click [here](#) for more.

## The Smart Money in AI

[AI Stocks: Tech Giants, Cloud Titans, Chipmakers Battle For An Edge](#)

[7 Top AI Stocks: October 2023](#)

[Google agrees to invest up to \\$2 billion in OpenAI rival Anthropic](#)

## The Last word...for now.

Thanks for reading my newsletter—let me know how I can make it even better!  
Randy  
[QuinnAIUpdate@gmail.com](mailto:QuinnAIUpdate@gmail.com)

Let me know what you think!



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