The Big Reveal

With Futurist Amelia Kallman

#57

Introduction

Welcome to issue #57 of The Big Reveal! You can also watch it on YouTube here.

Really enjoyed speaking at the Financial Times' "Innovation in Wealth Management" summit with news coverage of my talk here, AT&T's Masterclass Live in Singapore, Allianz's AI & Wellness event, and talking AI & Manufacturing at Valmet's event in Sweden.

Looking forward to speaking on:
● Future of Gaming, *London*
● AV, AI & Sustainability, *Amsterdam*
● Future of Luxury Retail, *London*
● Future of Aviation, *London*

Let me know if you'd like to collaborate or catch up!

All the best,
Amelia

01
Gieni AI

Gieni AI is the first B2B AI-chatbot designed for the manufacturing industry. Built using OpenAI API, Gieni has an exclusive specialised database of over 250,000 machines and 120,000 manufacturers worldwide. It can instantly answer questions about market data, suppliers, costs, support, regions, and more. This research could previously take people weeks, resulting in both time and cost savings.

Image by iStock, greenbutterfly

02

TMS

Researchers have found a way to simulate full body sensations in VR without having to wear a haptic exoskeleton. A device attached to a headset uses magnetic impulses (TMS) to stimulate and activate sense memory in the brain. The custom robotic platform moves the TMS coil across the user's head to generate touch and force feedback in eleven body regions, including hands, arms, legs, feet, and the jaw.

Paper.

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Image by Neuroscience News

03

Ultrahuman Home

Ultrahuman Home measures how your living spaces impact your physical health. It lets you monitor, personalise, and enhance health markers like air quality, humidity, light exposure, temperature and noise, while providing insights on how their levels impact things like sleep quality, respiratory health, and blood levels. Data is processed and stored locally to ensure privacy. Currently on Kickstarter for £319.
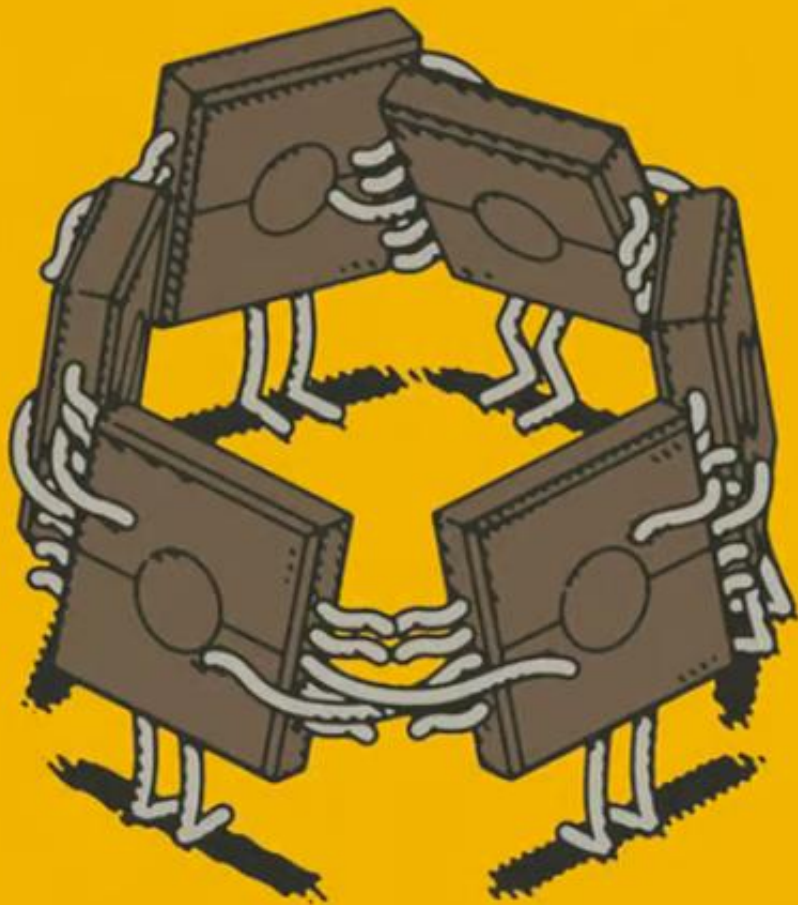
Kickstarter.

Image by Ultrahuman Home

04

MAS

Researchers are experimenting with teams of LLMs, or what they call 'multi-agent systems' (MAS). They can assign each other tasks, build on work, or deliberate over a problem that any one LLM would be unable to solve on its own. Without the need for human direction, they also demonstrate reasoning, accuracy, and math skills superior to stand-alone AI models.

Article.

Image by Mike Haddad

05

Walmart

Walmartrealm.com features influencer-led virtual shops in an array of vibrant immersive worlds. To be experienced via VR, smartphone, or computer, this 'v-commerce' experience aims to reshape the future of retail by ushering in the next generation of immersive shopping. "It's fantastical, it's inspirational and simply put: it's a lot of fun." Check it out for yourself in the link below.
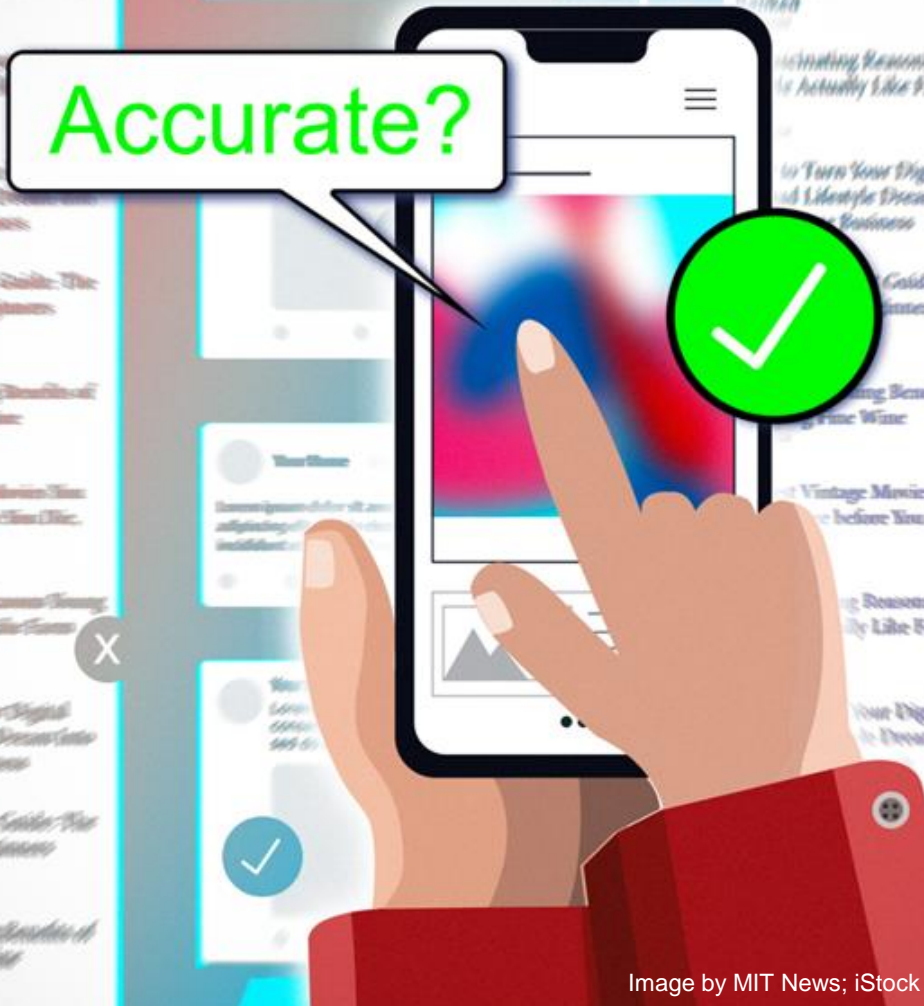
Website.

Image by Walmart

06
Trustnet

Trustnet is a web browser extension that fights against misinformation. People can flag misinformation and identify trusted sources to assess online content. Taking a decentralised approach, it puts the power to decide what constitutes misinformation into the hands of individuals rather than a central authority. It works for content including websites, social media, news aggregators, and videos. Early participants report that having the ability to assess content, and see assessments from sources they trust, helps critical thinking.

Article.

Image by MIT News; iStock

07

Premier League VR

The Premier League has teamed up with Rezzil, the world's leading XR sports trainer, to develop a new VR game to launch later this year. Rezzil trains athletes in both football and basketball, applying research from the world's best coaches and players to train their immersive software. Bringing fans and amateur players closer to the sports, sensors are used to trigger the same neuroplastic responses as training with a real ball.
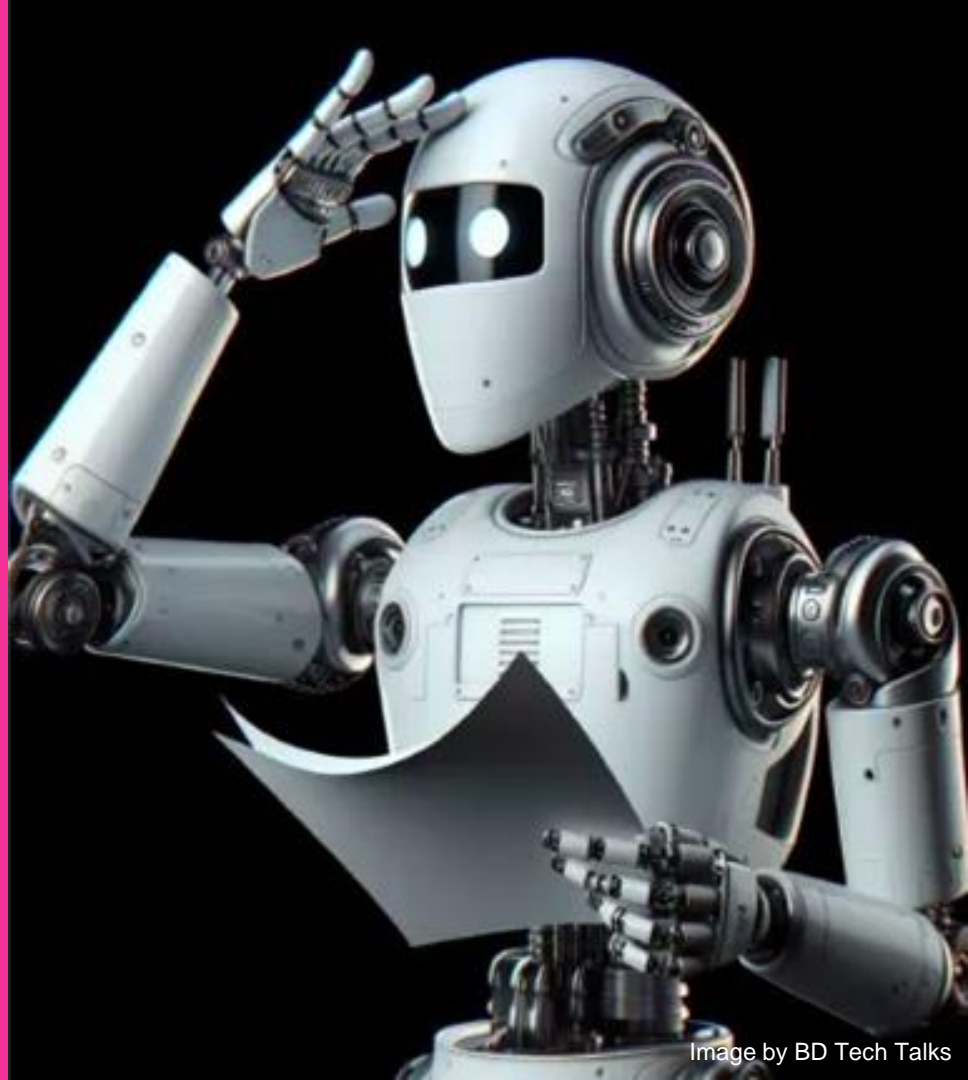
Article.

Image by Sport Industry

08
Adapt-LLM

Retrieval-augmented generation (RAG) enables LLMs to draw additional context and information from external sources when answering questions. By default it does this every time, making it inefficient if the LLM already has the answer. Researchers have developed Adapt-LLM, a new "adaptive retrieval" technique enabling models to autonomously determine when to use RAG for additional context, and when it's unnecessary. This could become a new standard moving forward.

Article.

Image by BD Tech Talks

09
Mammoth

In 2021 TBR covered Ocra, the first giant vacuum by Climeworks designed to suck pollution out of the atmosphere. Now the company has opened V2 in Iceland. Ten times bigger than its predecessor, the Mammoth uses Direct Air Capture (DAC) technology to suck in air and strips out the carbon. The carbon can either be buried underground or recycled into solid products. Mammoth is expected to pull 36,000 tons of carbon from the atmosphere every year, the equivalent to taking around 7,800 gas vehicles off the road.
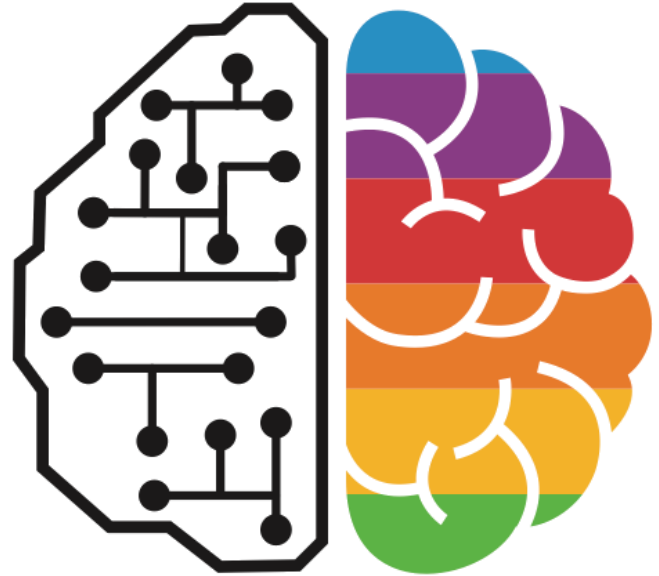
Article.

Image by Climeworks

10
LGBTQ+AI

Nearly 50% of LGBTQIA+ workers don't feel safe being 'out' in the workplace. "AI Comes Out of the Closet" offers generative simulations, dialog, and characters that can help people experiment with complex social interactions in a safe and controlled environment. It is meant to test the belief that when technology is thoughtfully applied, it can be a force for societal good, progress, equality, understanding, and support.

Article.

Image by Queer in AI

Thank you

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