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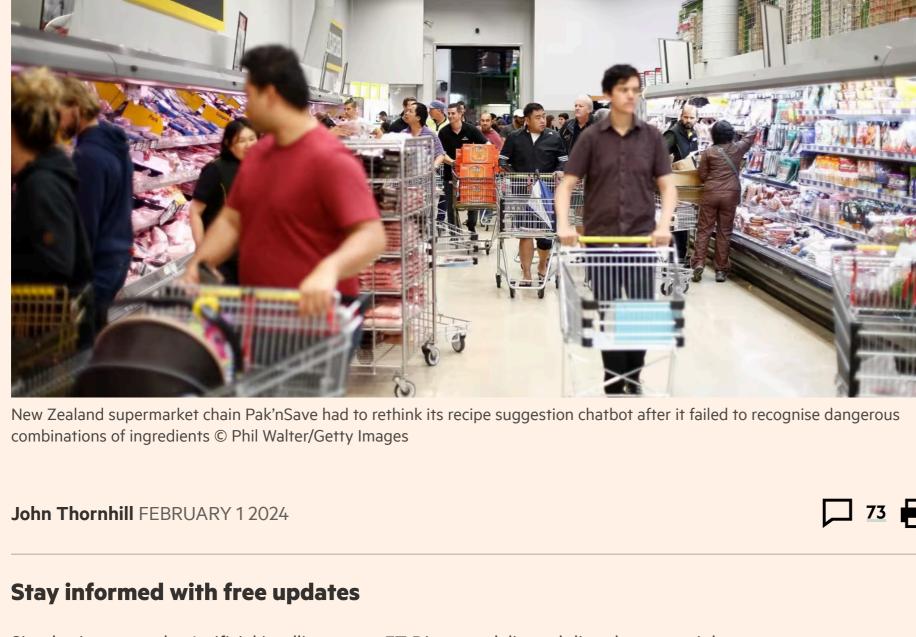
Opinion Artificial intelligence

Why AI hallucinations can be a good

thing Generative artificial intelligence should be welcomed as a giant mash-

up machine to enhance creativity + Add to myFT **JOHN THORNHILL** 





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The writer is founder of **Sifted**, an FT-backed site about European start-ups

The tendency of generative artificial intelligence systems to "hallucinate" — or

simply make stuff up — can be zany and sometimes scary, as one New Zealand

supermarket chain found to its cost. After Pak'nSave released a chatbot last year offering recipe suggestions to thrifty shoppers using leftover ingredients, its Savey Meal-bot recommended one customer make an "aromatic water mix"

that would have produced chlorine gas.

Lawyers have also learnt to be wary of the output of generative AI models, given their ability to invent wholly fictitious cases. A recent Stanford University study of the responses generated by three state of the art generative AI models to 200,000 legal queries found hallucinations were "pervasive and disturbing". When asked specific, verifiable questions about random federal court cases, OpenAI's ChatGPT 3.5 hallucinated 69 per cent of the time while Meta's Llama 2 model hit 88 per cent.

To many users, generative AI's hallucinations are an irritating bug that they

assume the tech companies will fix one day, just like email spam. To what

extent companies can do so is currently a subject of active research and fierce contention. Some researchers argue that hallucinations are inherent to the technology itself. Generative AI models are probabilistic machines trained to give the most statistically likely response. It is hard to code in human traits such as common sense, context, nuance or reasoning. While technologists try to figure that one out, some users find machinegenerated fiction to be an exciting feature and have been exploring its creative possibilities. "I love hallucinations," says Martin Puchner, a Harvard University

professor and author. "They are so cool when it comes to artistic creation."

of creativity. In his book, he argues that for millennia humans have been

As the author of Culture: A New World History, Puchner has a distinctive view

assimilating the inputs of preceding generations and other cultures and mixing

them up to generate fresh syncretistic outputs. Consider how much imperial

Arabic scholarship, or how Japan adopted Chinese writing and philosophy, or

Every civilisation, Puchner writes, tends to overestimate the originality of their

own culture to prop up dubious claims of superiority and ownership. "Such

Rome borrowed from ancient Greece, or the Italian renaissance drew from

Jamaican Rastafarian culture absorbed Ethiopian traditions.

claims conveniently forget that everything comes from somewhere, is dug up, borrowed, moved, purchased, stolen, recorded, copied, and often misunderstood," he writes. "Culture is a huge recycling project." The parallels with generative AI are striking. To some extent, our machines are doing today what humans have been doing forever: mashing up different cultural inputs to generate slightly varied outputs. In that sense, generative AI

can be seen as a giant cultural syncretism machine. Reliant on imperfect,

partial, data and overconfident in generalising from the particular, machines

may be more like fallible humans than we sometimes imagine. Hallucinations

may not be so much an algorithmic aberration as a reflection of human culture.

That all sounds abstract. What does it mean in practice? In short, everything

enhancing human creativity by generating new ideas and content, especially in

If prompted in the right way, these models can act as a useful sparring partner

algorithmic equivalent of thinking outside the box. Puchner has himself been

experimenting with customised chatbots to converse with historical figures,

and a tireless source of inspiration for creative projects. They can be the

such as Aristotle, Confucius and Jesus, based on their words and ideas.

depends on the use case. Generative AI models can be a fantastic tool for

music, images and video.

intellectual property theft.

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"Prompt engineering should be part of Harvard's syllabus," Puchner says. The founder of one generative AI company tells me we are rapidly entering the age of "generative media". "The internet and social media brought the cost of distribution down to zero. Now, thanks to gen AI, the cost of creation is also going close to zero," he says. That trend could lead to an explosion of creativity, for both good and bad. It may also deepen concerns over disinformation and

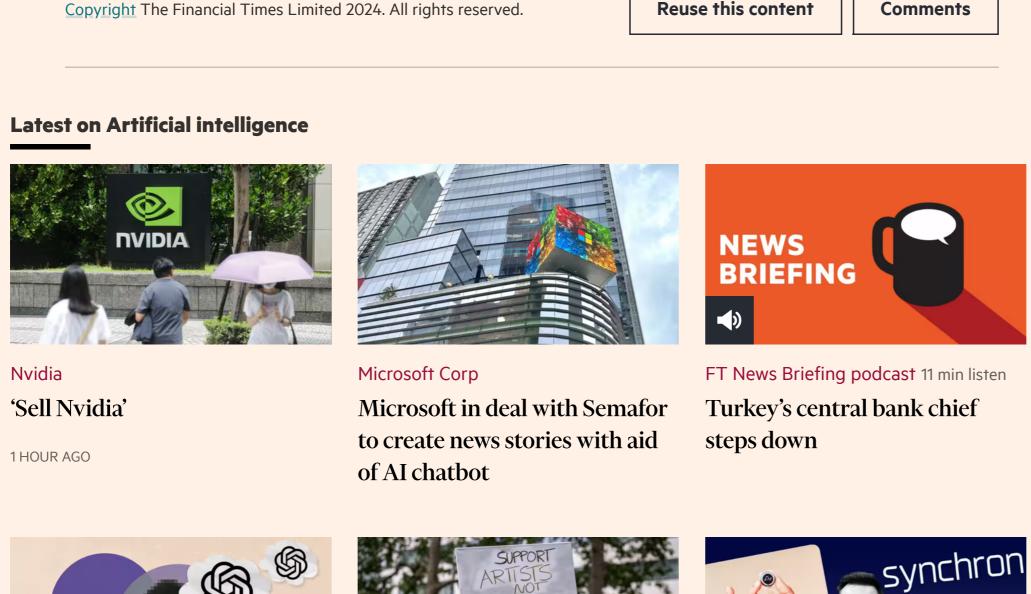
Impressive as it is as a fiction writer, generative AI still has a long way to go

to enhance human capabilities rather than imagine it as an agent that can

when it comes to reliable non-fiction. That is fine so long as we use it as a tool

replace all human processing power. To hallucinate a phrase: caveat prompter.

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