

The way AI 'learns' poses risks so large, it almost supplants threats from China

JUNE 29TH, 2023 BY DAVID ARIOSTO | 0 COMMENTS



CIPHER BRIEF REPORTING — The Intelligence Community's 2023 Annual Threat Assessment released in March emphasized the Chinese Communist Party in what intelligence leaders later described as the "most consequential threat" to U.S. national security...

"Yes, China is top of mind," said Chris Krebs, former U.S. Director of the Cybersecurity and Infrastructure Security Agency, speaking at the Cyber Initiatives Group Summit on Wednesday.

"Just about every organization, either intentionally or unintentionally, [are] integrating AI workflows, processes, [and] business operations," he said, pointing specifically to software tools, such as AI-powered chatbots like ChatGPT and Google Bard.

The concern, however, is over how that data is being employed.

Trained on large language models (LLMs) that utilize neural networks — a collection of interconnected units or nodes — companies are now racing to embed those tools to help clients with everything from booking hotels to synthesizing meeting notes.

"There are front-line workers ... that are going out and using ChatGPT to help them be more efficient," noted Krebs. "But the unfortunate thing is that we're seeing a lot proprietary, sensitive, or otherwise confidential information getting plugged into public LLMs."

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In a recent report published by Cyberhaven, a California-based cybersecurity company, the authors determined that more than one in 10 employees evaluated had used ChatGPT in the workplace, while nearly 9% had pasted their company data into chat bots.

In one such case, an executive entered the company's 2023 strategy document, and then asked the chat bot to rewrite the information as a PowerPoint deck. In another, a doctor inputted a patient's name and medical information, using it to craft a letter to the patient's insurance company.

In the broader scope, U.S. adversaries and criminal entities could also potentially use the tech to drum up information about critical infrastructure, for instance, that might improve the efficacy of a coming cyber strike.

"I don't even think we've really wrapped our arms around what a data breach from those sorts of interactions [could mean]," said Krebs.

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Meanwhile, anecdotal reports of the phenomenon seem to be gaining momentum. So much so, that companies are issuing guidelines meant to prevent the mishandling of confidential information that can occur simply by using AI tools.

"The challenge is from a guard-rails perspective," added Krebs. "There aren't a lot of options right now."

OpenAI retains data unless users select to 'opt-out'. But several major companies, including J.P. Morgan Chase and Verizon, have already blocked access to the technology, while others, such as Amazon, have issued warnings to employees, prohibiting them from inputting company data.

Meanwhile, the use of AI-powered searches have seen explosive growth.

ChatGPT, created by the research and deployment company OpenAI, is estimated to have reached more than 100 million monthly active users shortly after its launch, with more than 300 applications now using the tech, along with "tens of thousands of developers around the globe," the company said.

"We currently generate an average of 4.5 billion words per day, and continue to scale production traffic."

In the public sector, where chatbots have long been employed, especially across state and local governments as a public interface for questions about everything from health care claims to rental assistance to Covid-19 relief funds, cities like Los Angeles are seeking to further embrace AI-powered technology to improve bureaucratic functions, such as paying parking tickets and facilitating voter registration.

Officials often laud AI's potential as a means of efficiency, as does the tech itself.

In fact, when asked directly, "how might ChatGPT change how people interact with government?" it responded with a list: 1.) greater ease of communications, 2.) breaking-down language barriers, 3.) resolving issues without lengthy wait-times, 4.) automating routine functions, 5.) creating personalized guidance, and 6.) self-improving. But the chatbot also noted looming transparency, accuracy, and hacking vulnerabilities as potential pitfalls with its broader integration.

"When we make these LLMs available to a large number of people, the data can be manipulated," noted Paul Lekas, Senior Vice President for Global Public Policy and Government Affairs at the Software and Information Industry Association. "The algorithm on top of the data can be adjusted to achieve certain means. And there's been an extensive amount of research over the past couple years, showing that LLMs can essentially propagate misinformation and common mistakes, and make it much easier to generate misinformation."

"I'm concerned about the landscape," he added during Wednesday's Cyber Initiatives Group Summit.

Others at the conference also chimed in with broader concerns.

"I might even be a little farther along the continuum than you," said Glenn Gerstell, former National Security Agency General Counsel and moderator of the session on cyber-propelled disinformation during which Lekas spoke. "I feel that the combination of the technical development ... combined with the geopolitical and social situation means we're in for potentially a period of very, very destabilizing set of factors that could affect democracy."

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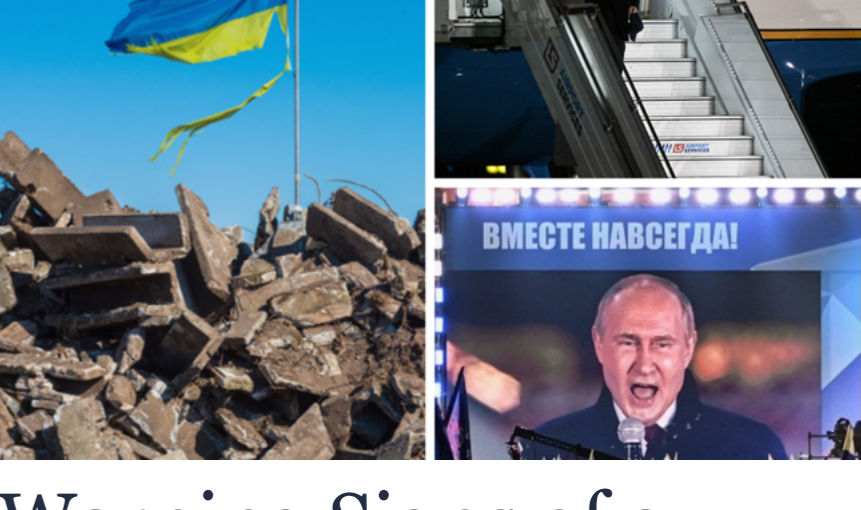
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