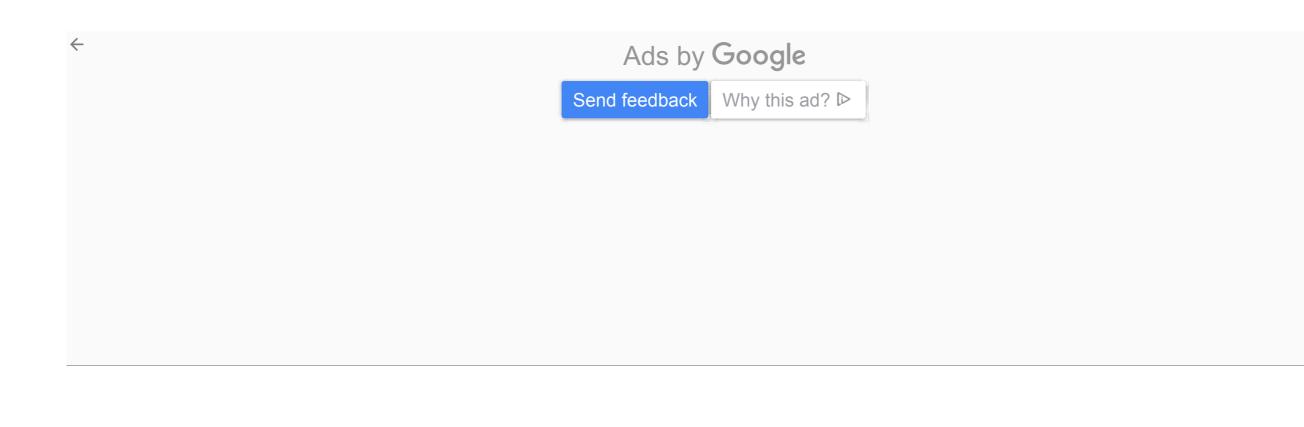
San Francisco Chronicle



No, AI is most certainly not the new Manhattan

**OPINION // OPEN FORUM** 

## Project Nuclear scientists were driven by a sense of duty and patriotic responsibility. The rise of AI is driven by greed. Theodore Kim, Shelly Lesher **飴** Gift this article

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While AI executives and advocates enthusiastically invoke the Manhattan Project, eager to borrow against the prestige of physics and its most notorious project, their grasp of Cold War history has been facile at best, and misreads both the past and present.

War II physicist who led the development of the atomic bomb. The movie

arrives just as the conversation around AI, and how it parallels the

development of nuclear weapons, comes to a fever pitch.

figure is Edward Teller, the architect of the *hydrogen* bomb (H-bomb) who was immortalized as Dr. Strangelove in Stanley Kubrick's 1964 movie of that same name. Paralleling the Cold War arms race to build ever-larger Hbombs, AI executives are racing to build bigger Large Language Models (LLMs, the technology that powers ChatGPT) while wildly promising that they will make us healthier, smarter and more productive. Share 10 articles every 30 days

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astonishingly reckless uses of H-bombs. These included proposals to blast a

Current and former tech leaders are quick to <u>use</u> J. Robert Oppenheimer's

name to conjure the success of the atomic bomb, but the more appropriate

new harbor into Alaska and nuke an alternative to the Suez Canal through the Negev Desert. Any of these proposals would have caused immediate and immense environmental damage, and the project was scuttled when public

Teller's Project Plowshare also promised benefits while advocating for

opinion turned against nuclear weapons. We are not in a Manhattan Project moment, where terrified Jewish scientists who had been expelled by the Nazis were racing to build the atomic bomb before Hitler. The current AI race is not a high-stakes gambit to defeat a fascist empire, but a cash-in on the next big Silicon Valley fad. Instead of scientists and generals in charge, we have venture capitalists and

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used to make tomorrow's more powerful. Thus, we are living in a special historical moment since, as one leading technologist put it, "nukes don't make stronger nukes."

thousands of times more powerful than the bomb that the U.S. dropped on Hiroshima. These nukes can be made exponentially powerful without theoretical limit and have no tactical military value. Their only application is mass genocide. When Oppenheimer was chairman of the Atomic Energy Commission's General Advisory Committee, he publicly opposed the development of these horrific devices while pushing for openness and international control.

In response, the committee publicly humiliated him by stripping him of his

security clearance, citing flimsy evidence that years ago, he had not

Haakon Chevalier, to the government quickly enough.

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reported an espionage-tinged conversation with one of his associates,

This came to be known as the Chevalier Incident, and there are clear

analogy falls apart because unlike previous technologies, today's AIs can be

This claim to exceptionalism is totally ahistorical. Nukes can in fact be used

exploding atomic weapon is used to trigger a thermonuclear reaction that is

to build stronger nukes. That is exactly how a hydrogen bomb works. An

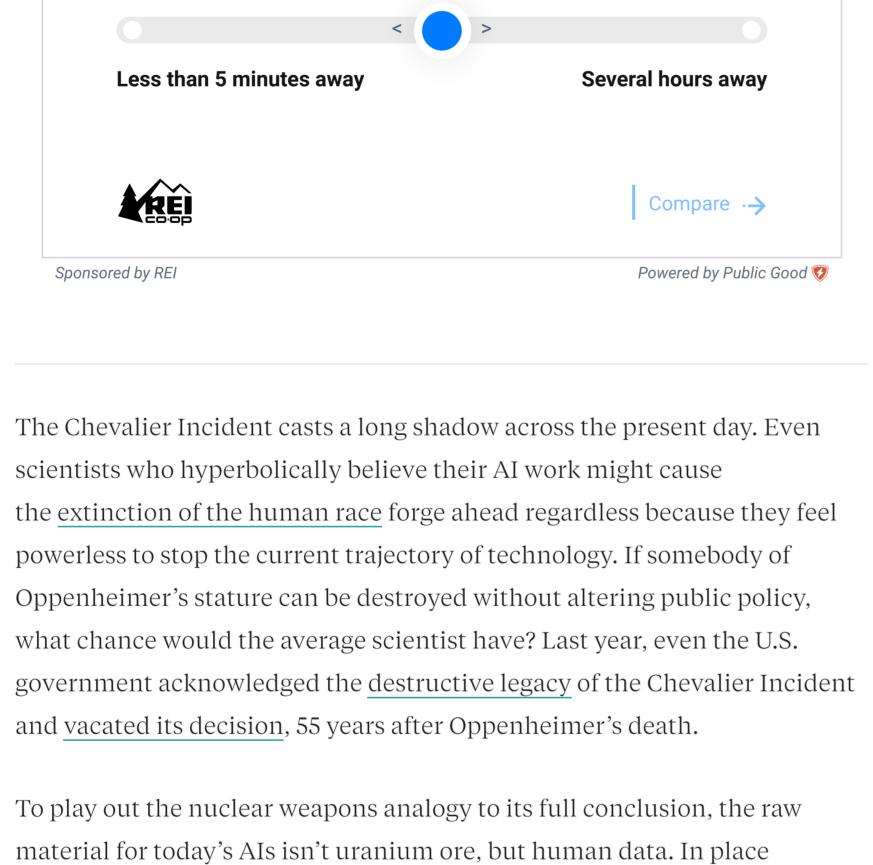
similarities with our current AI moment. When the Google Ethical AI team tried to publish a paper warning against the dangers of progressively larger LLMs, they were slowly fired over the course of a year. Echoing the Chevalier Incident, the flimsiest procedural pretense was offered: prepublication protocols on their paper had not been properly followed. If anybody is Oppenheimer in this story, those ethics researchers are. **ADVERTISEMENT** 

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OpenAI is advocating for a new regulatory body akin to the International Atomic Energy Agency. While that agency was tasked with enforcing the Non-Proliferation Treaty, it has been criticized for ultimately consolidating the U.S. and Russia as nuclear superpowers. But companies are not nationstates, and the equivalent of a superpower is a monopoly. This is the actual goal of the advocacy: the end of Big Tech, and the beginning of Big AI. Just like Big Brother, except he's watching you for training data, which he'll use to slowly drain your paycheck.

of thousands of young women refining the ore into weapons-grade material,

we have vast data labeling operations powered by millions of precariously

paid humans. This time, weapons production is under the sole control of

non-state actors: massive tech companies. OpenAI is funded by Microsoft,

and Stability AI is powered by Amazon.

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the past. There is no patriotic or public service imperative for AI. This is the Manhattan Project of greed. Theodore Kim is a professor of computer science at Yale University. Shelly Lesher is a professor of physics at the University of Wisconsin, La Crosse and the host of My Nuclear Life.

patriotic responsibility. This is how our current moment truly diverges from

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