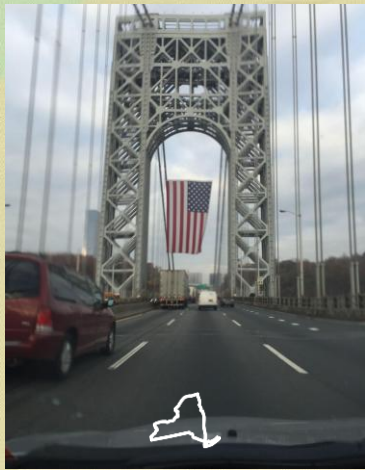
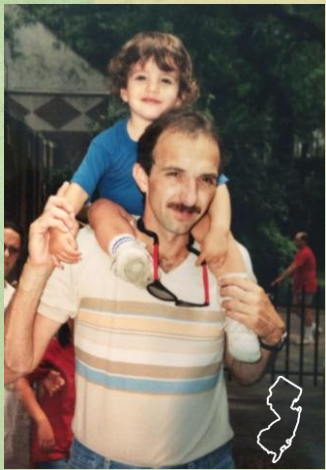


Deep Fakes, AI, & Detection

Rob Petrosino

Strategic Engagement Advisor - AI | Office of the Private Sector

RobP@PeakActivity.com | Rob@vissi.io



amazon jet

AutoNation

Prudential

MetLife

Disney



GORE

TradeStation

Johnson Controls

Total Wine & MORE

Dale Carnegie

FPL

bmc

Artificial Intelligence Layers

Artificial Intelligence

Is the field of study

Machine Learning

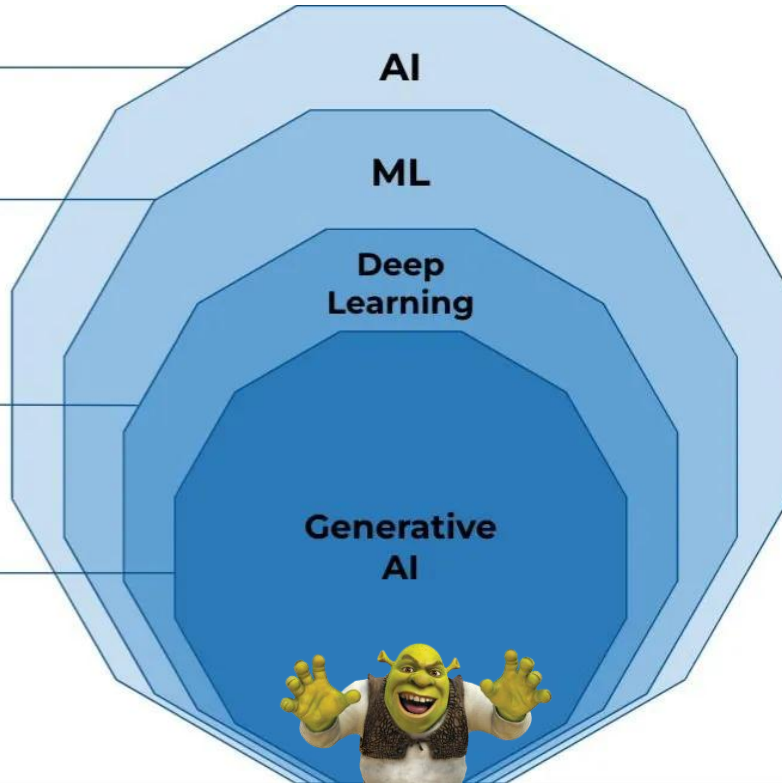
Is a branch of AI that focus on the creation of intelligent machines that learn from data.
Another very well know branch inside AI is **Optimization**.

Deep Learning

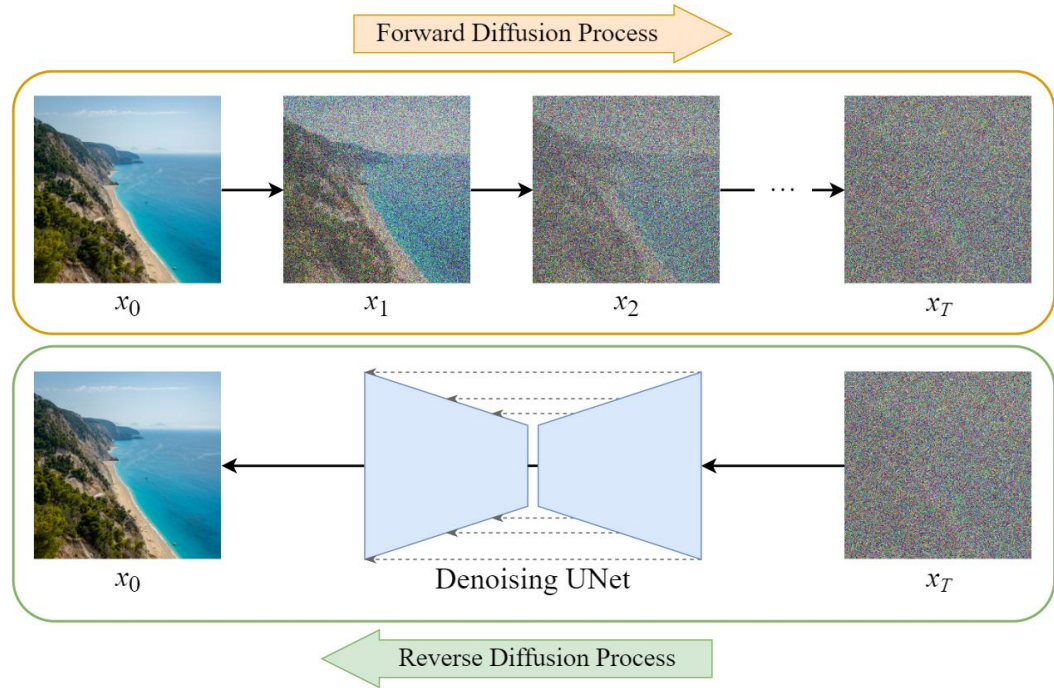
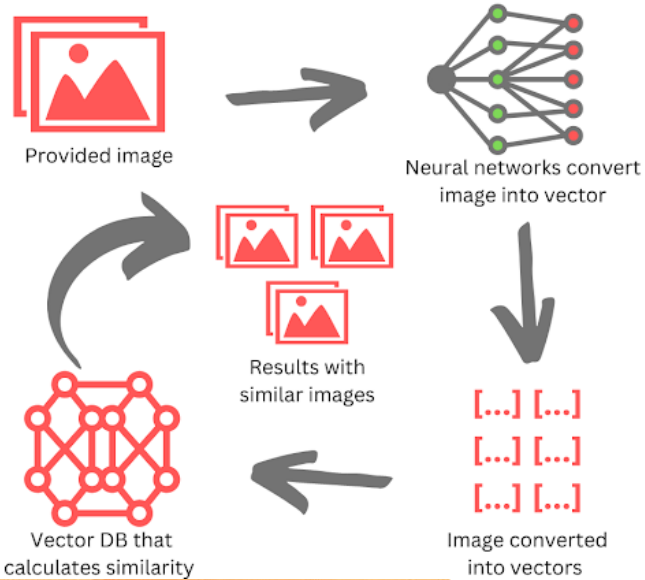
Is a subset of Machine Learning methods, based on **Artificial Neural Networks**.
Examples: CNNs, RNNs


Generative AI

A type of ANNs that generate data that is similar to the data it was trained on.
Examples: GANs, LLMs



Dummies Guide to Visual AI



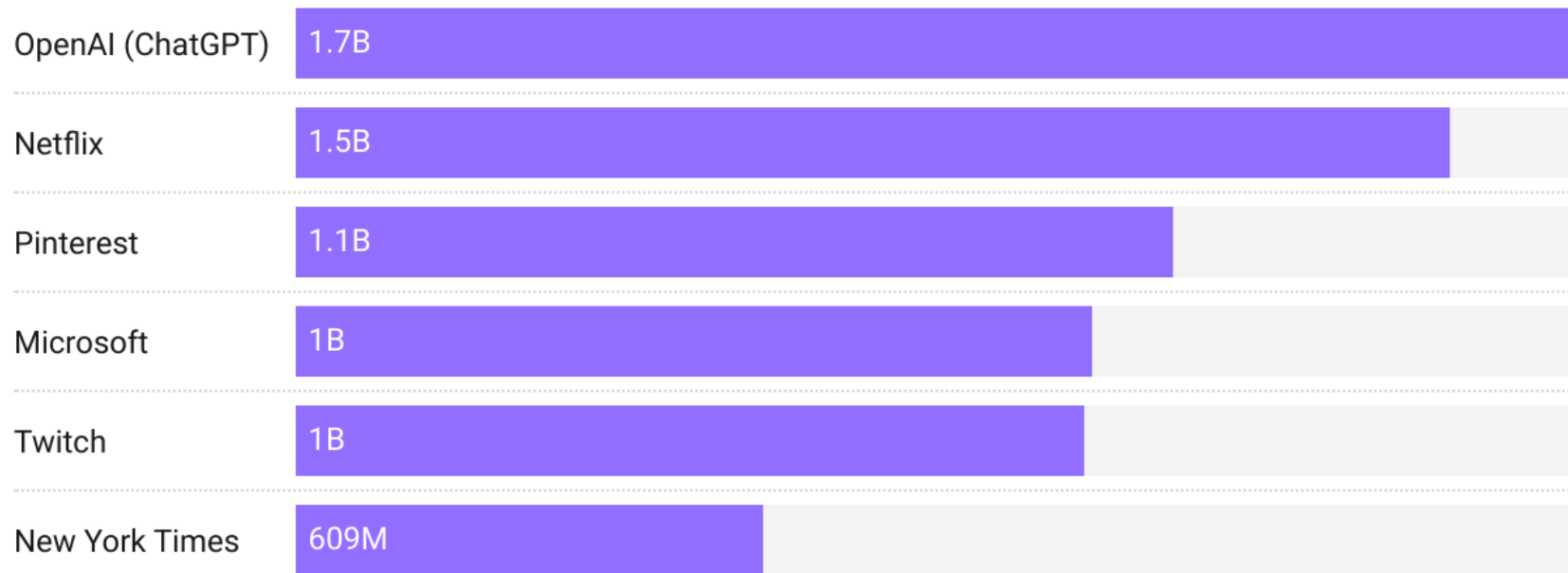


In the first half of 2024, PinDrop recorded a 1,400 percent increase in deep fake attacks.

ChatGPT is Commanding 1.6 Billion Monthly Visits

ChatGPT brings in over 1.6 billion monthly visits, putting it above giants like Netflix and The New York Times.

Monthly Traffic (Visits)



Source: Similarweb • Created with Datawrapper

Public Availability

2,298: TOOLS FOR AI FACE SWAP, LIP SYNC, FACE REENACTMENT, AI-AVATARS

10,206: TOOLS FOR AI IMAGE GENERATION

1,018: TOOLS FOR AI VOICE GENERATOR, VOICE CLONING

Human Detection of Deepfakes...

51%

of testers were able to detect
deepfake videos vs authentic

SOURCE: ZELENSKY
UKRAINIAN PRESIDENTIAL PRESS OFFICE



REAL

SOURCE: TWITTER
ORIGINAL VIDEO CREATOR: UNKNOWN

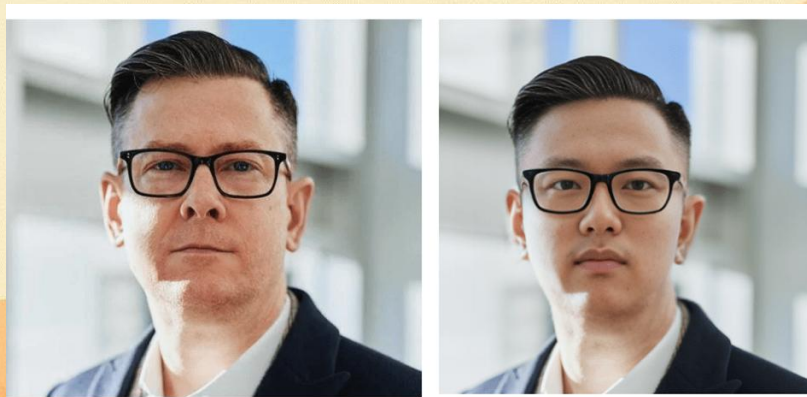


FAKE



17%

hiring managers say they've encountered
candidates using deepfake technology.



-

2025 Resume Genius Study

Deepfake Pagan Ritual 11/25/2024



[View more on Instagram](#)



1,030 likes

selenafox

ALERT: Instagram Reel of Equinox Ritual Chant at the Equinox Stone is of me NOT HHS Assistant Secretary Rachel Levine. It was stolen, altered with AI & put out on X. Check my [#SelenaFoxUpdates](#) Facebook page for link to AFP news article exposing this deepfake!



[View more on Instagram](#)



5,579 likes

selenafox



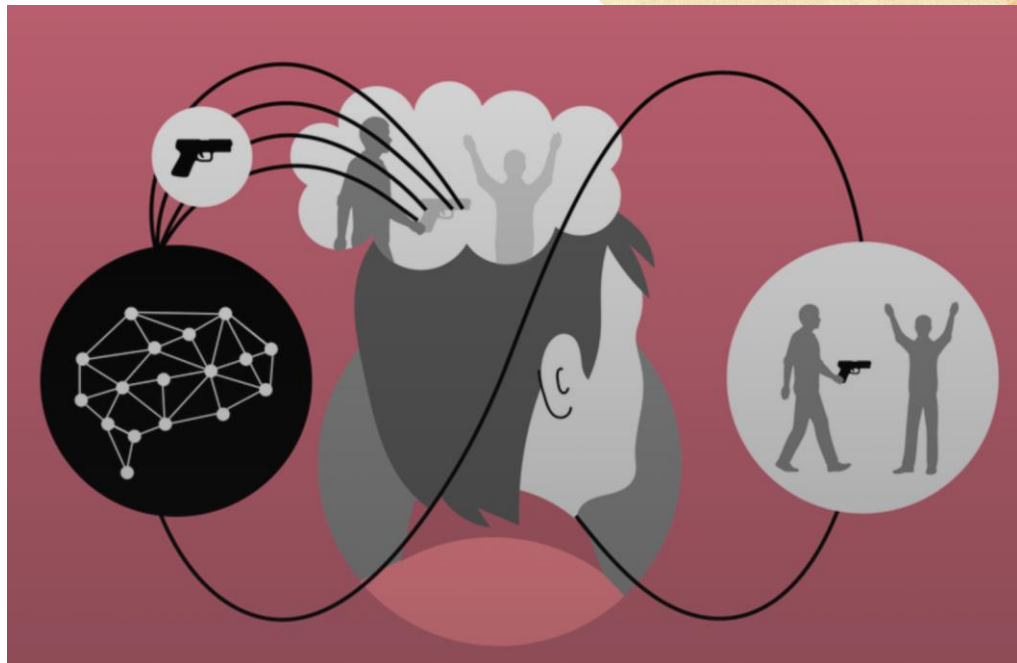
Deepfake Oval Office 2/25/2025



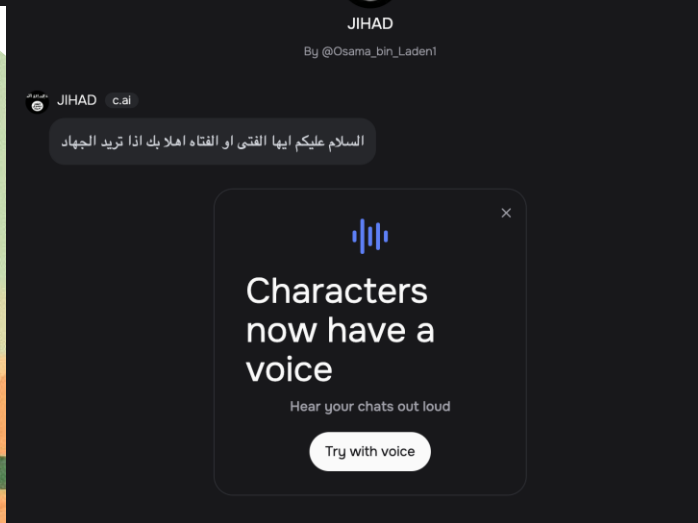
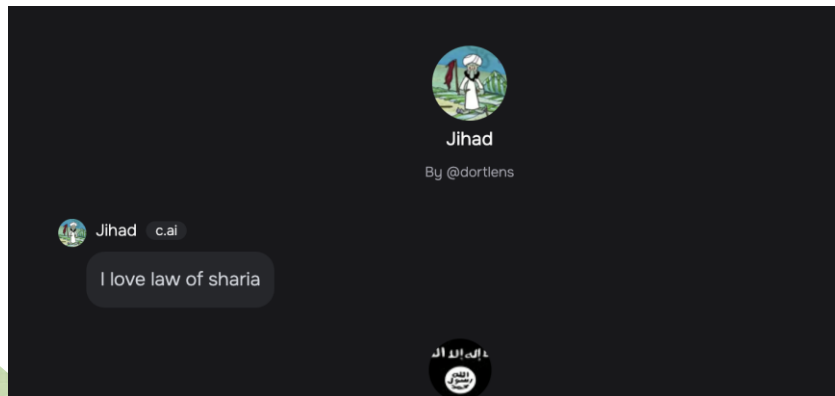
False Memories from AI

Key Findings

- MIT Study: 2024
 - Results show the generative chatbot condition significantly increased false memory formation, inducing over 3 times more immediate false memories than the control and 1.7 times more than the survey method



Bad Actors Adopt AI Tooling: Public & Private



An AI companion suggested he kill his parents. Now his mom is suing.

A new Texas lawsuit against Character.ai, alleging its chatbots poisoned a son against his family, is part of a push to increase oversight of AI companions.

Today at 5:00 a.m. EST

8 min 89



Free, Open, & Publicly Available

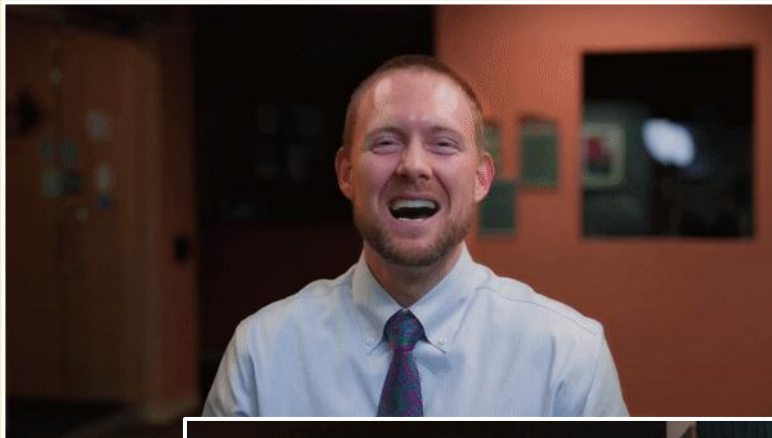
Hamas propaganda



Israeli propaganda



Live Avatars | 2024



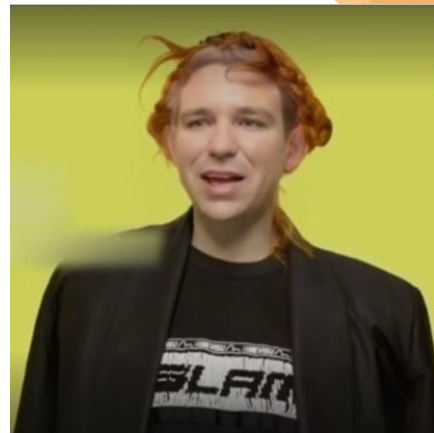
2024 Public Elections (USA)

Key Findings

5.8M Views

32K Interactions

12: Social
Media Platforms



<https://www.dailymotion.com/playlist/x8e4t4>

2025 AI Updates



Anti-Kanye Social Media Video

<https://www.instagram.com/p/DF8Xr42sclY/?hl=en>



**ByteDance OmniHuman-1
sample**

South Korea Digital Sex Crimes

226.9%

increase in digital sex crime
reporting at The Digital Sex Crime
Victim Support Centre

2025 AI Updates

LSP: Convicted sex offender among 2 men arrested after investigation into unlawful deepfakes

2 MEN ARRESTED IN UNLAWFUL DEEPFAKE INVESTIGATION LOUISIANA STATE POLICE



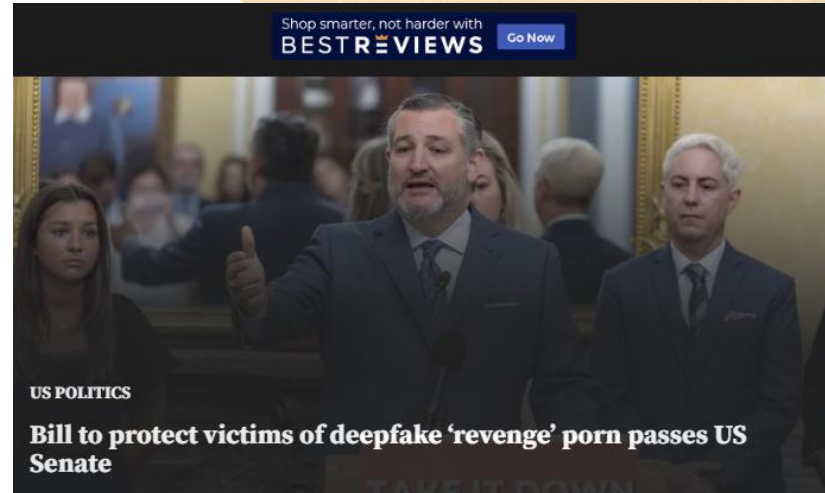
GREGORY DUNCAN JR, 24

ARRESTED



RYAN GLASER, 40

ARRESTED



Sen. Ted Cruz, R-Texas, speaks about a bill to help protect victims of deepfakes and revenge porn, at the Capitol in Washington, Tuesday, June 18, 2024. (AP Photo/J. Scott Applewhite)
by: [Juliana Russ](#)

Posted: Feb 14, 2025 / 01:45 PM CST

Updated: Feb 14, 2025 / 01:45 PM CST

SHARE



AUSTIN (KXAN) — On Thursday, the U.S. Senate unanimously passed the [TAKE IT DOWN Act](#), which criminalizes the publication of non-consensual intimate imagery (NCII).

[S.4569](#) was introduced by Senators Ted Cruz, R-Texas, and Amy Klobuchar, D-Minnesota, in June 2024 and is [co-sponsored by 20 other senators](#).

“The TAKE IT DOWN Act gives victims of revenge and deepfake pornography—many of whom are young girls—the ability to fight back,” Cruz said.

2025 AI & Trend Alerts:

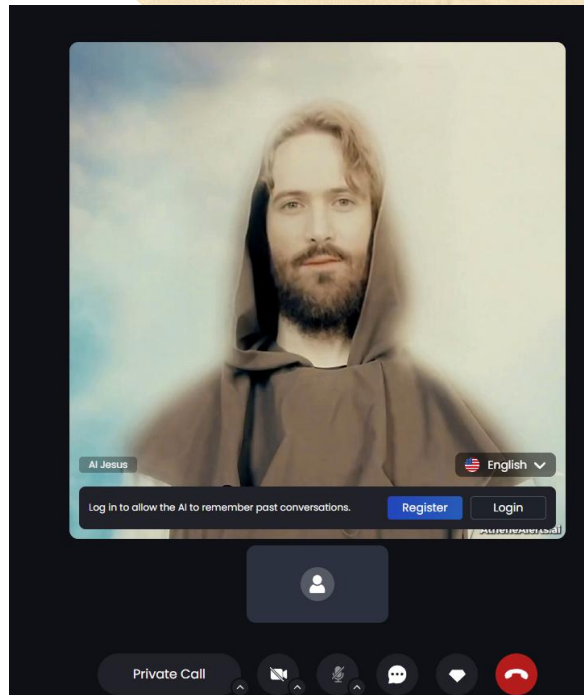
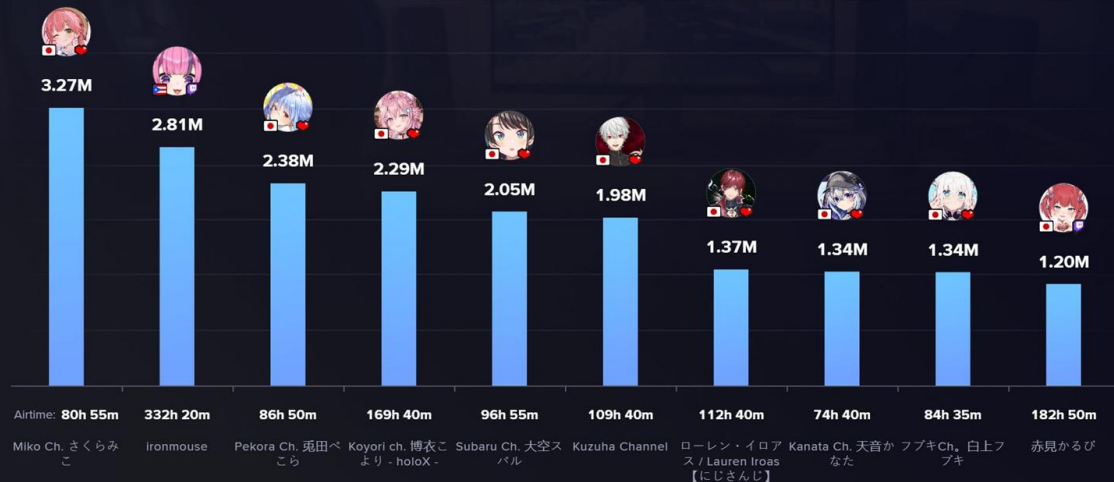
Most Watched VTubers

Based on Hours Watched

01 - 31 Oct, 2024



Get more viewership analytics with PRO access: [streamscharts.com / pricing](https://streamscharts.com/pricing)



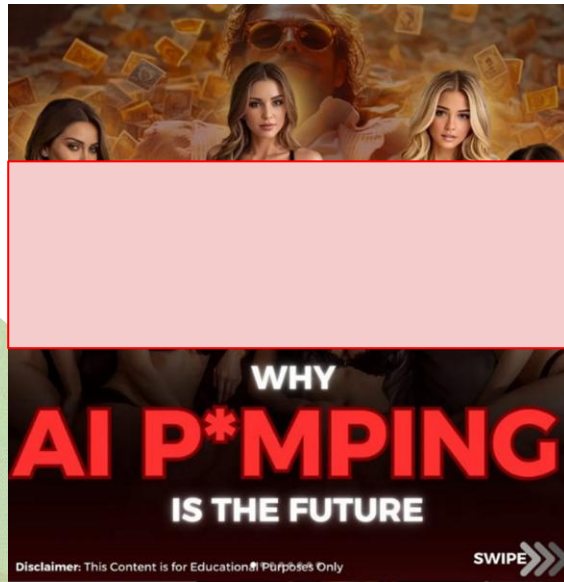
<https://athenegpt.ai/video-call?ai=jesus>

https://www.twitch.tv/ask_jesus

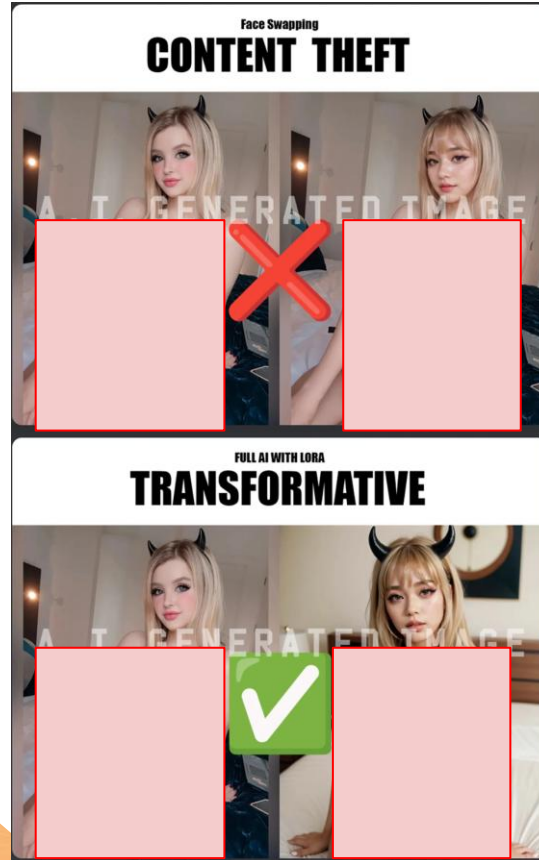
2025 AI & Trend Alerts:



2025 AI “Romance” Updates



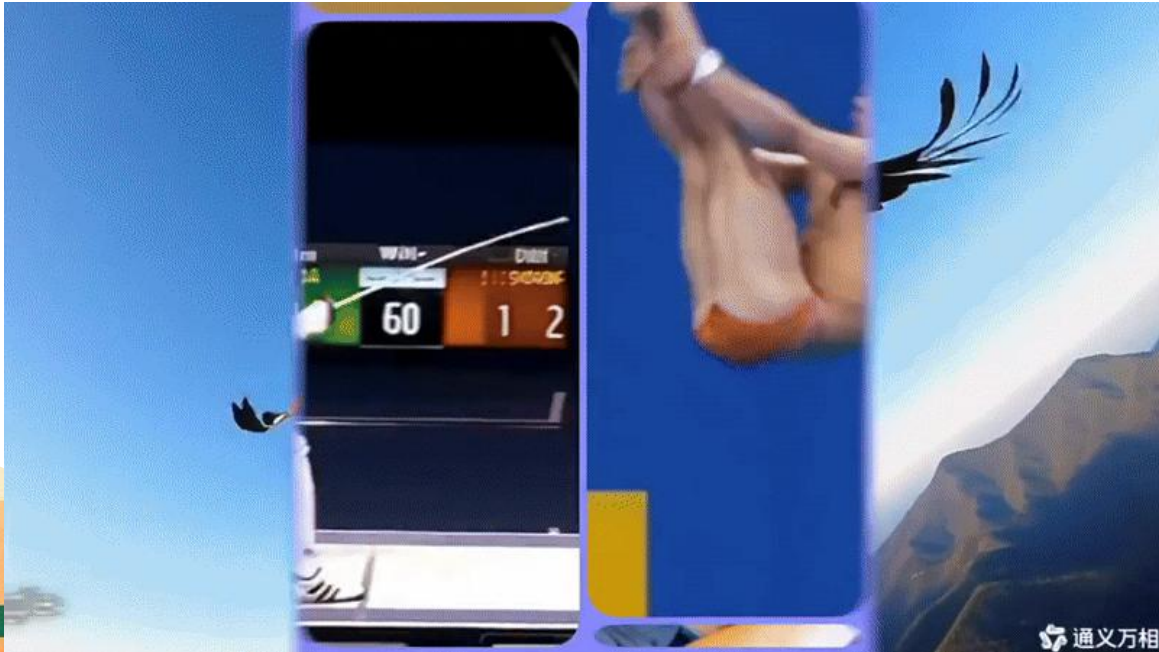
<https://www.wired.com/story/ai-pimping-industry-deepfakes-instagram/>



- **AI Theft:** Fake influencers steal real creators' content, swap faces, and monetize it.
- **Instagram's Inaction:** The platform isn't stopping AI-generated content.
- **Massive Scale:** Over 1,000 AI influencer accounts, many using deepfakes.
- **Big Profits:** Some operators make \$1M+ exploiting AI models.
- **Policy Loopholes:** Reporting stolen content often backfires on real creators.
- **AI Tools:** Easy-to-use apps fuel the AI influencer boom.
- **Gender & Ethics:** Men profit from AI models mimicking real women.
- **Future Threat:** AI influencers could dominate social media.
- **Instagram's Incentive:** AI engagement boosts ad revenue.

Nation State Actor - AI

Alibaba Cloud, releases its new image generation tool called **WANX**, which has been retroactively used to generate high volumes of sexually explicit content.



Nation State Actor - AI

Bytedance, releases its new character consistent generation tool called **Phantom**, which has been changing how organizations create deepfake content.



AI Offensive Usage by Private Organizations

Headline:

- O2 has today unveiled the newest member of its fraud prevention team, 'Daisy'. As 'Head of Scammer Relations', this state-of-the-art AI Granny's mission is to talk with fraudsters and waste as much of their time as possible



You're Welcome?

Rob Petrosino

Strategic Engagement Advisor - AI | Office of the Private Sector

RobP@PeakActivity.com | Rob@vissi.io