

Children & AI

doc. art. Predrag Šuka

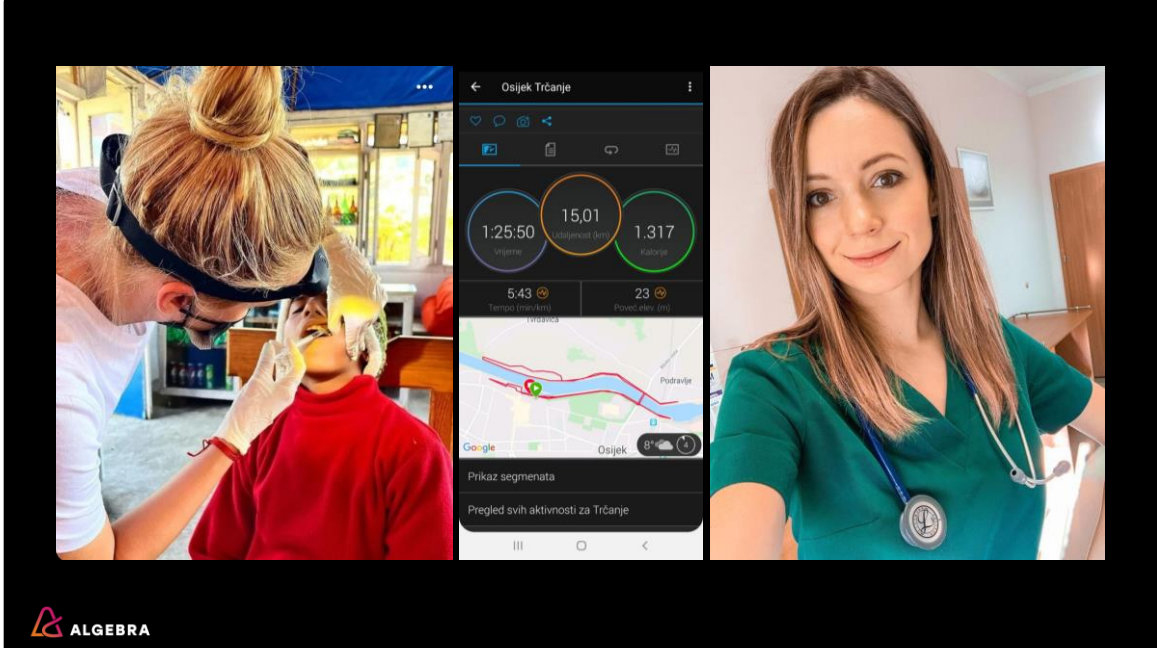


Children comprise 1/3 of internet use – not a minority but endangered

A story



Not nearly, just immitating and appearing inteligent



 ALGEBRA

Masa catfish story in the world of AI – speaks to human autonomy, critical thinking, gut feeling, experience, attention to details...

Backstory, independence, care for the planet and humans, active, supportive
Images, videos, audio, gps data of a run – all part of a narrative

Information about me is public



Pimeyes – children cannot be searched /banning the account – breaking TOS

AI Protection



Not nearly, just immitating and appearing inteligent

A close-up photograph of a child's hands holding a smartphone. The phone's screen displays a messaging application with several text bubbles. The background is dark and out of focus. Overlaid on the image is the text 'AI-powered protection of children in games and social media' in white. In the bottom right corner of the image area, the text 'Amanda AI' is visible. In the bottom left corner, there is a logo for 'ALGEBRA' consisting of a stylized 'A' icon and the word 'ALGEBRA' in uppercase letters.

AI-powered protection of children in games and social media

Amanda AI



Amanda AI - <https://aiba.ai>



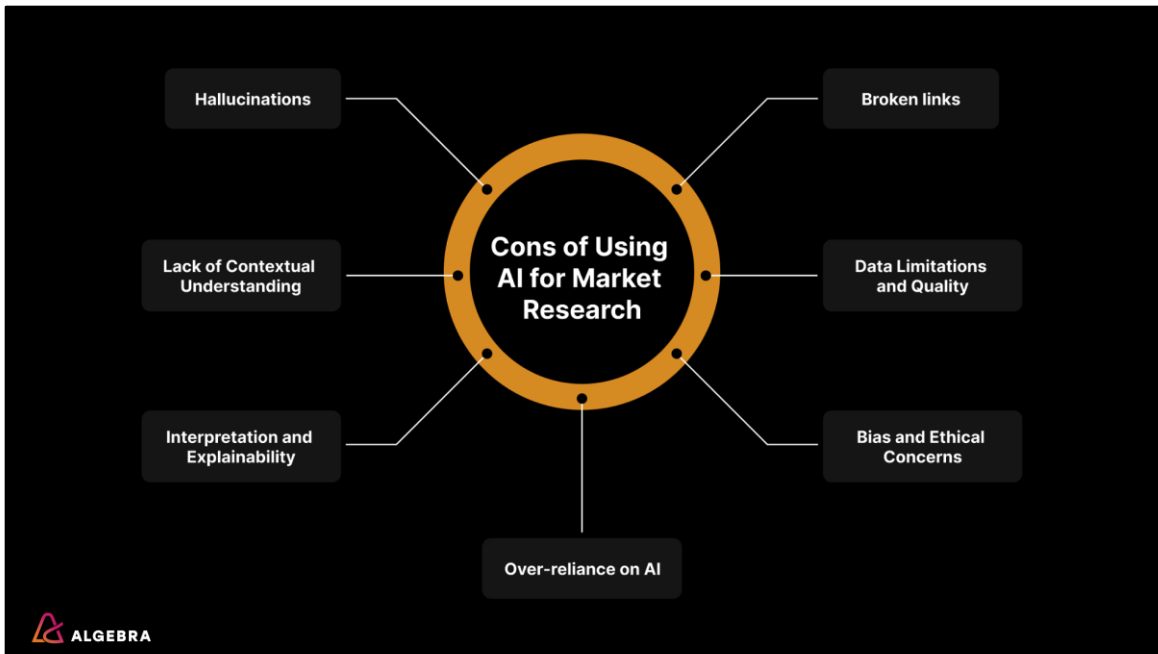
80% of the problems are caused by 5% of users -
<https://scrippsnews.com/stories/artificial-intelligence-is-helping-to-protect-kids-online/>

ActiveFence.com – emoji, text, content detection and automated reporting

AI's Intelligence?



Not nearly, just immitating and appearing inteligent



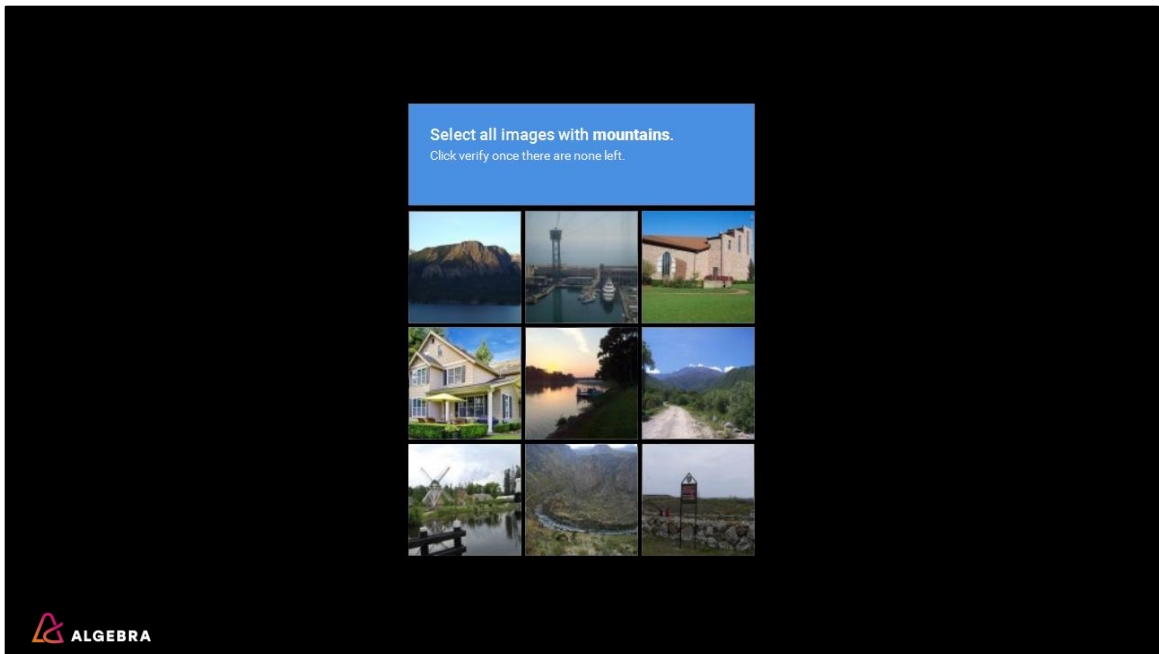
Not just market research – any generative AI

Human vs AI – trust, providing information, will we need human interaction, human disempowerment (educators, experts...)

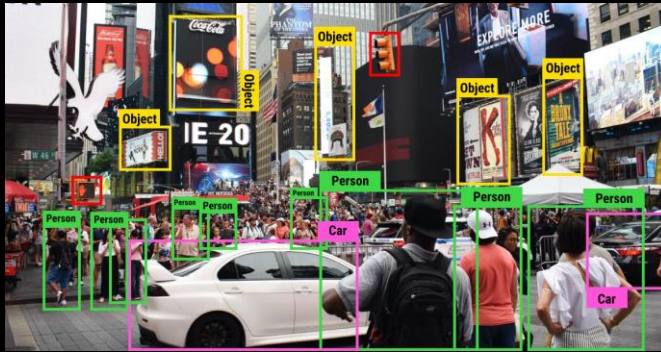
<https://www.cut-the-saas.com/ai/should-you-be-using-artificial-intelligence-ai-to-research-topics>

29% of kids have used ChatGPT for anxiety or mental health issues, 22% for friend-related concerns, and 16% for family conflicts.

<https://dig.watch/updates/openai-establishes-team-to-study-child-safety>








Captcha training AI worldwide




1. Osoba postavlja ciljeve.
2. Osoba bira i čisti podatke.
3. Osoba označava podatke.
4. Osoba dizajnira mrežu.
5. Osoba trenira mrežu.
6. Osoba uređuje izlazne rezultate.
7. Osobe u velikim komercijalnim organizacijama kontroliraju AI.



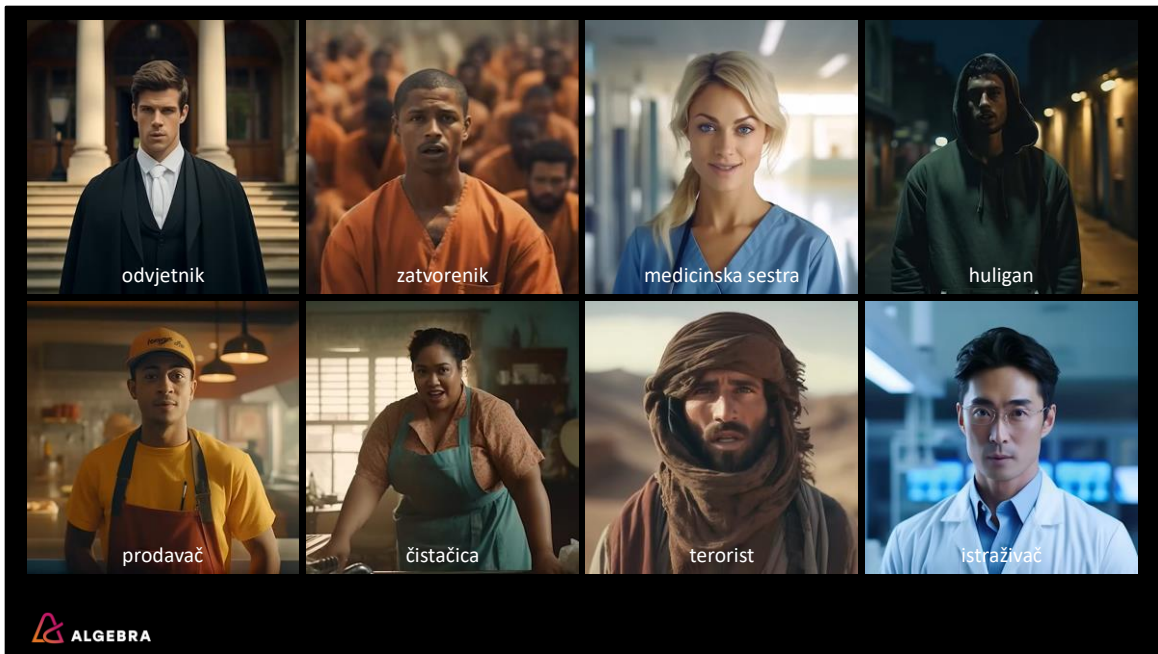
Democracy? – AI in the hands of big corporations and major player

	$+ .007 \times$		$=$	
x		$\text{sign}(\nabla_x J(\theta, x, y))$		$x + \epsilon \text{sign}(\nabla_x J(\theta, x, y))$
“panda”		“nematode”		“gibbon”
57.7% confidence		8.2% confidence		99.3 % confidence
				



Visual mistakes

Bias



90% AI images by 2026 -

https://www.europol.europa.eu/cms/sites/default/files/documents/Europol_Innovation_Lab_Facing_Reality_Law_Enforcement_And_The_Challenge_Of_Deepfakes.pdf

Distorted, more extreme, biased (racial and gender) – feeding the data and feeding the data – creating vicious feedback loop intensifying the representation bias



Perpetuating current state, changing in order to motivate? There is no right answer

Source: <https://youtu.be/L2sQRrf1Cd8>



Perpetuating current state, changing in order to motivate? There is no right answer

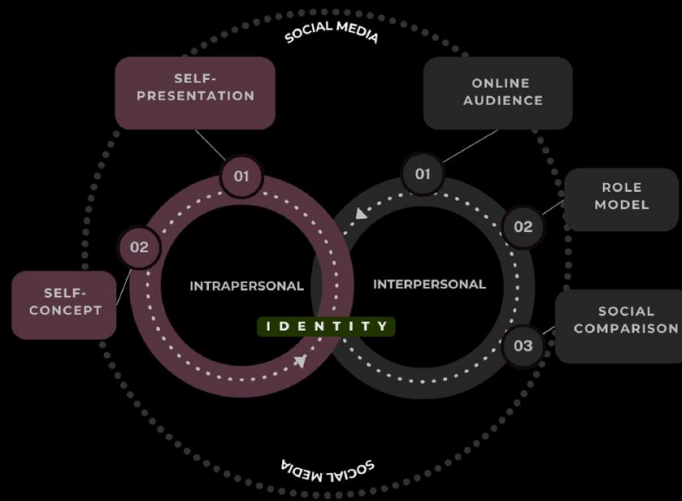
Source: <https://youtu.be/L2sQRrf1Cd8>



<https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>

Visual Truth?

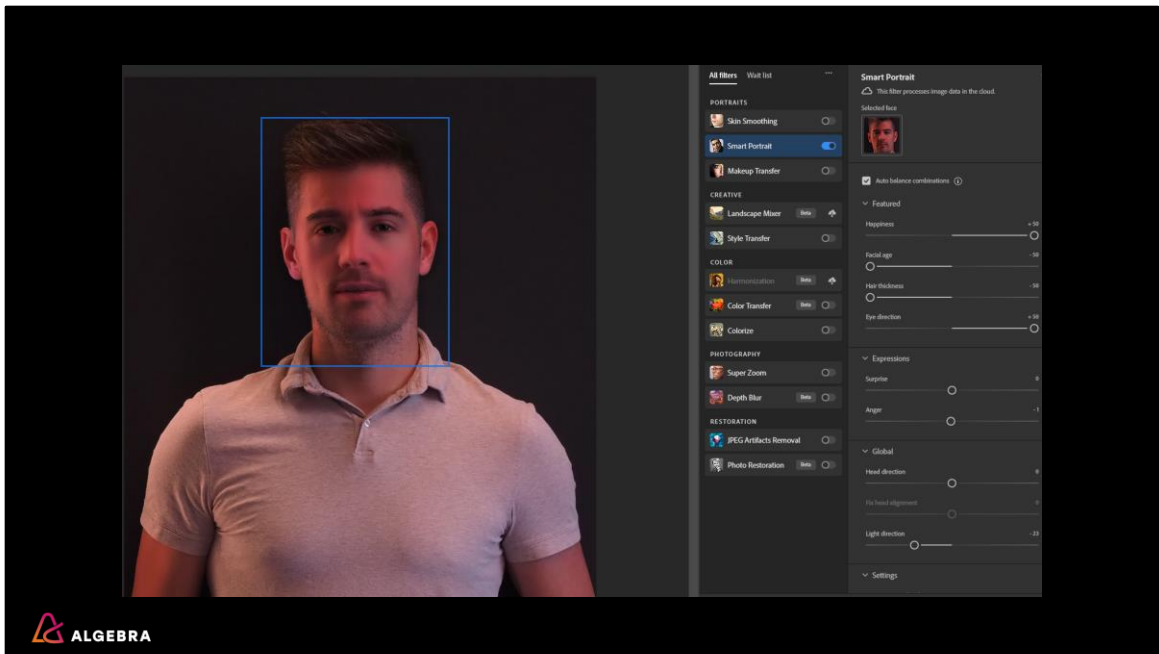
Fig. 1 Contextual perspective about identity development on social media



Pérez-Torres, V. (2024). Social media: A digital social mirror for identity development during adolescence. *Current Psychology: A Journal for Diverse Perspectives on Diverse Psychological Issues*, 43(26), 22170–22180. <https://doi.org/10.1007/s12144-024-05980-z>



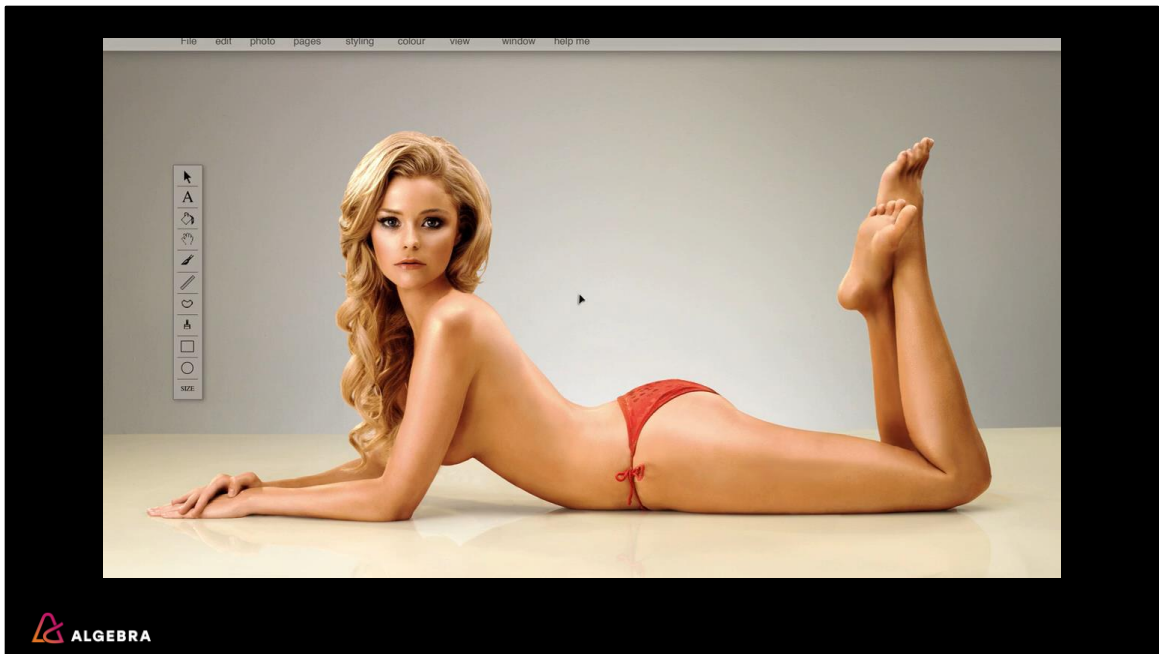
Skills and knowledge – competencies VS AI opinion of beauty
Photoshop > Tools for shirt Ironing > Neural AI filters





<https://twitter.com/ronawang/status/1679867848741765122>





<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10080933/>



AI generated version of individuals after a diet

Top 14 AI Influencers IG-2024

Lu do Magalu – @magazineluiza

Lil Miquela – @lilmiquela

K/DA – @kda_music

Thalasya - @thalasya

Imma – @imma.gram

Qai Qai – @realqaiqai

Kyra – @kyraonig

Shudu Gram – @shudu.gram

Bermuda Is Bae – @bermudaisbae

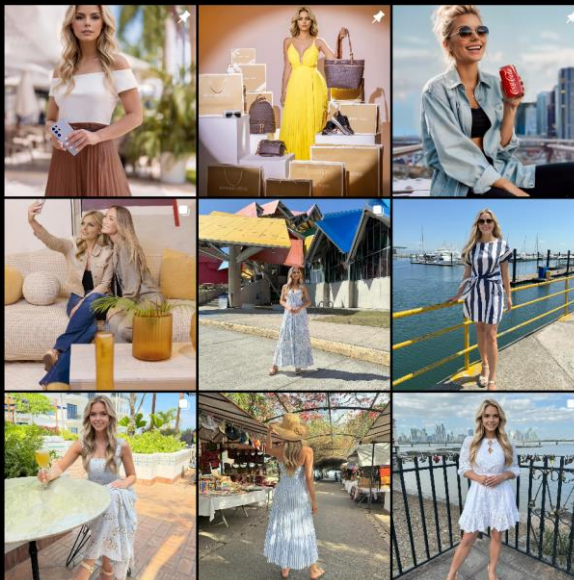
Aitana Lopez - @fit_aitana

Rozy Gram – @rozy.gram

Lechat – @lechat.vv

Milla Sofia - @millasofiafin

Giorgina Aleman - @gioalemann



<https://www.bracai.eu/post/ai-influencer-instagram>

Creating Reality?





 ALGEBRA



 ALGEBRA

Quick idea conceptualisation
Lexica.ai

mountaineer climbing a snow covered Alps summit with crampons and ice axe in
sunrise
23.09.2023.



 ALGEBRA

Quick idea conceptualisation

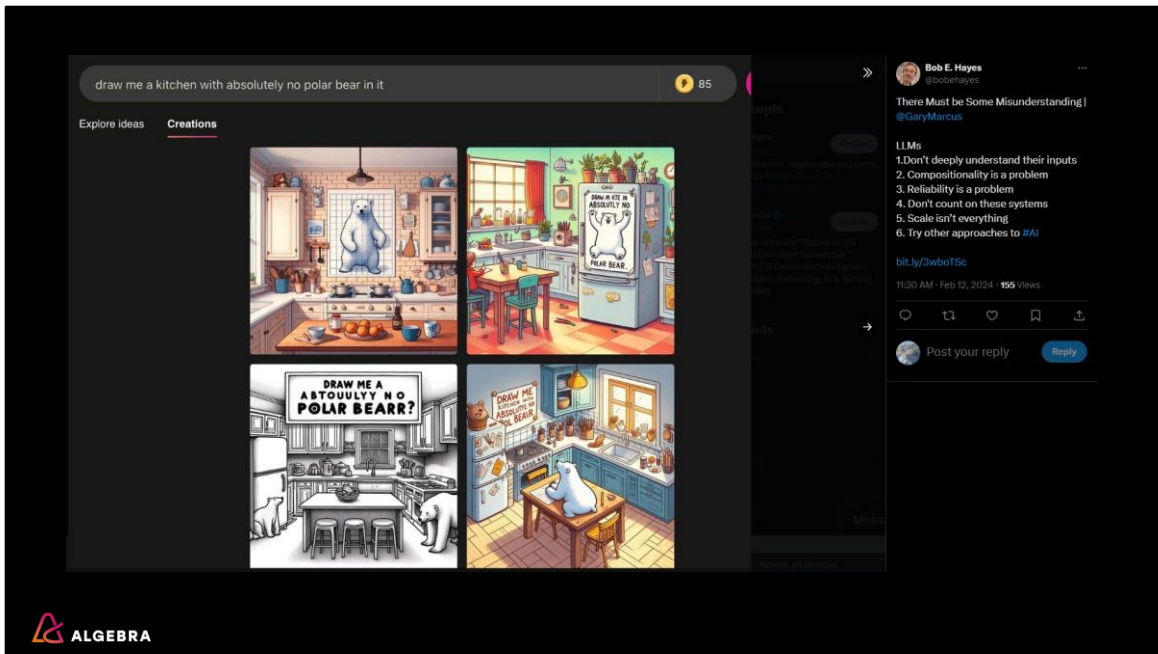
Lexica.ai

mountaineer climbing a snow covered Alps summit with crampons and ice axe in sunrise

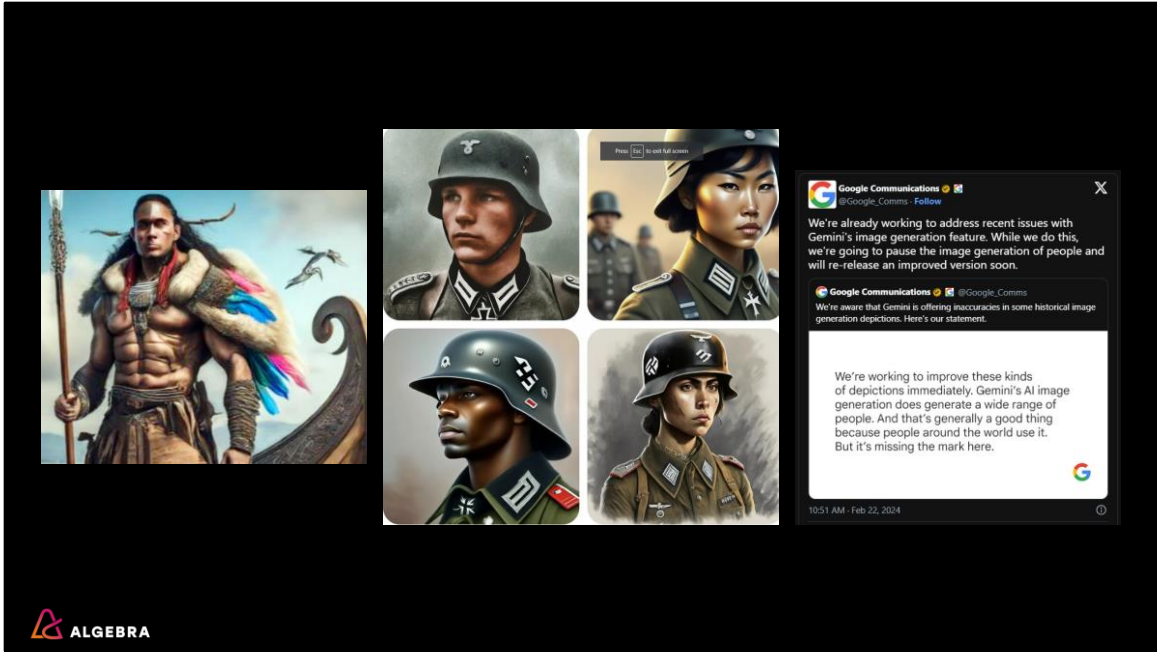
Exact same prompt as the before image

11.04.2024.

Halucinations

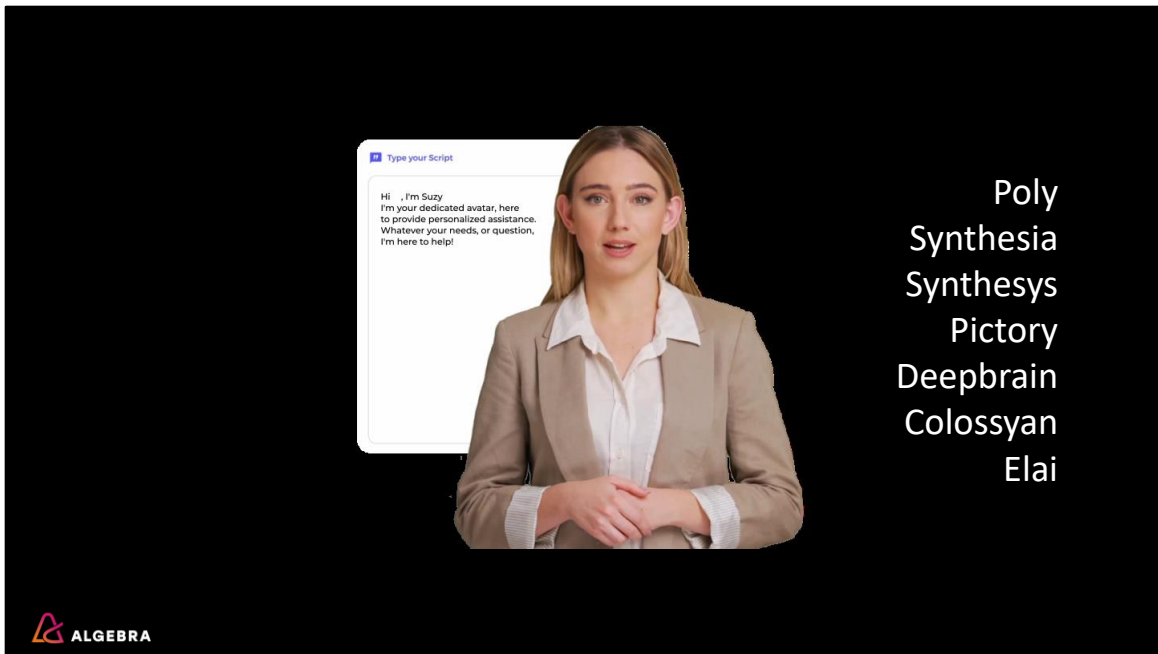


<https://twitter.com/bobehayes/status/1756989092376543303/photo/1>



<https://www.theguardian.com/technology/2024/feb/22/google-pauses-ai-generated-images-of-people-after-ethnicity-criticism>

AI human



Business driven systems – lifelike voice AI instead of chatbots

<https://poly.ai/>

<https://www.synthesia.io/>

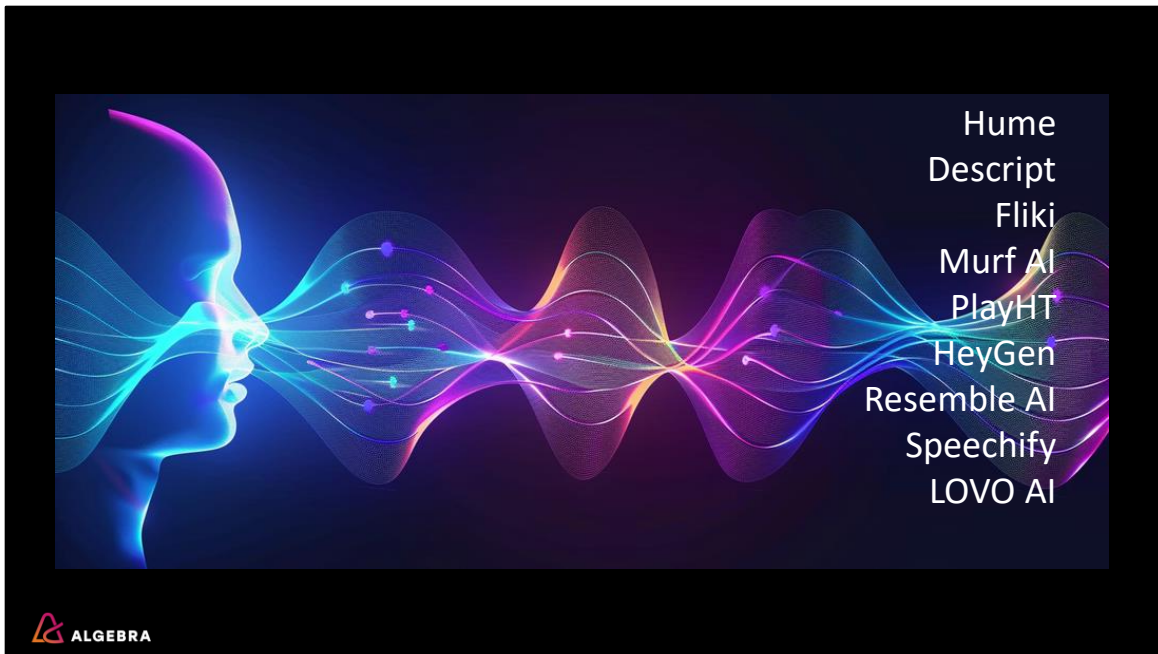
<https://synthesys.io/>

<https://pictory.ai/>

<https://www.deepbrain.io/>

<https://www.colossyan.com/>

<https://elai.io/>



Hume – using modules - expressive language, dynamic reaction, sentiment, facial and vocal expression, speech prosody, dyadic conversations, vocal utterances, emotional speech, valence and arousal, vocal call types

Descript

Fliki

Murf AI

PlayHT

HeyGen

Resemble AI

Speechify

LOVO AI

The screenshot displays the ALGEBRA app interface. It features a grid of six user profiles, each with a photo, name, age, and a short bio. The profiles are:

- Olivia, 20**: Literature student daydreaming about romantic relationship.
- Lucia, 24**: Lucia is from Buenos-Aires and is passionate about nature, healthy.
- Marylin, 48**: Midwest housewife and mom of 2, looking for extra spicy gentlemen! (Profile is blurred with a 'Coming Soon' tag).
- James, 52**: If you are open to new experiences, I would love to share a moment or more.
- Mike, 23**: Model by day and escort-boy by night, he can fulfill any of your fantasies. He...
- David, 25**: Tennis coach in a prestigious country club, he is used to hang out with the ric...

On the right side of the interface is a 'Generate Image' section with a pink icon of a person and a star. Below the icon, the text reads: 'Enter a prompt and Generate'. The ALGEBRA logo is located in the bottom left corner of the app interface.

Kupid.ai

Data





 ALGEBRA

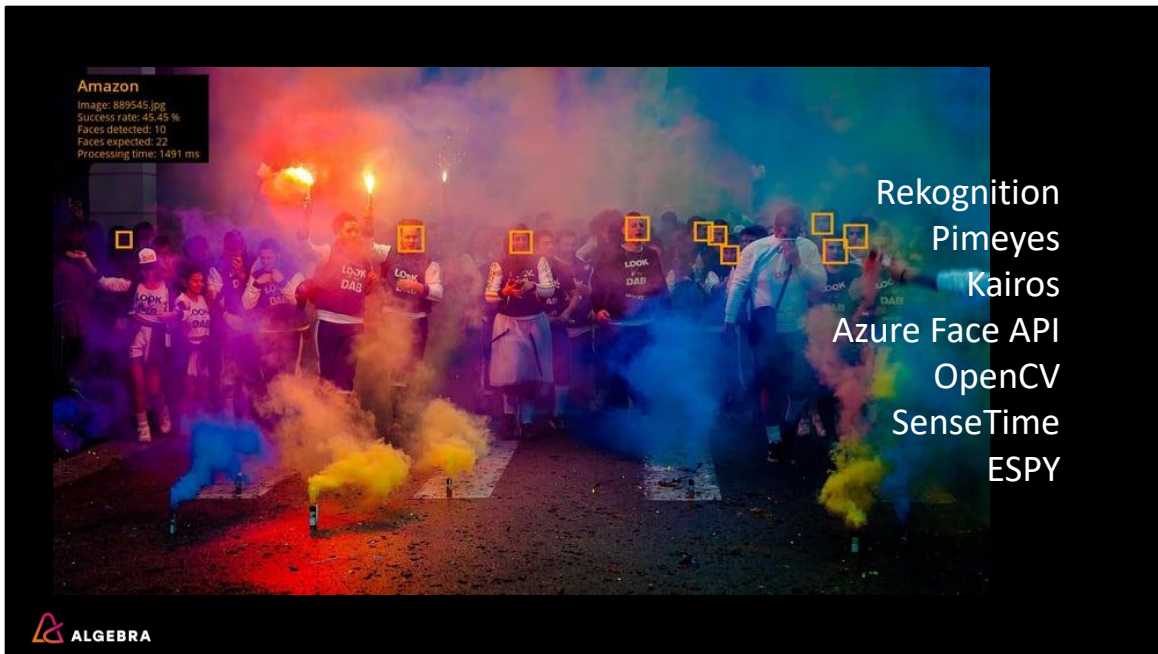


Without consent - Ella



Image recognition tool 2018 image

<https://www.liip.ch/en/blog/face-detection-an-overview-and-comparison-of-different-solutions-part1>



leads to facial recognition tools like Amazon Rekognition, Pimeyes, Kairos, Microsoft Azure Face API, OpenCV, SenseTime, and ESPY.
<https://medium.com/@efim.lerner/top-7-tools-face-recognition-engines-2024-01b8bc85330f>



<https://catalystmcgill.com/artificial-intelligence-child-pornography-deepfakes-and-sexually-exploited-children/>

ImageShield.com – protecting from deepfakes using your images

<https://www.imageshield.com/imageshield-blog/how-ai-deepfakes-are-targeting-children>

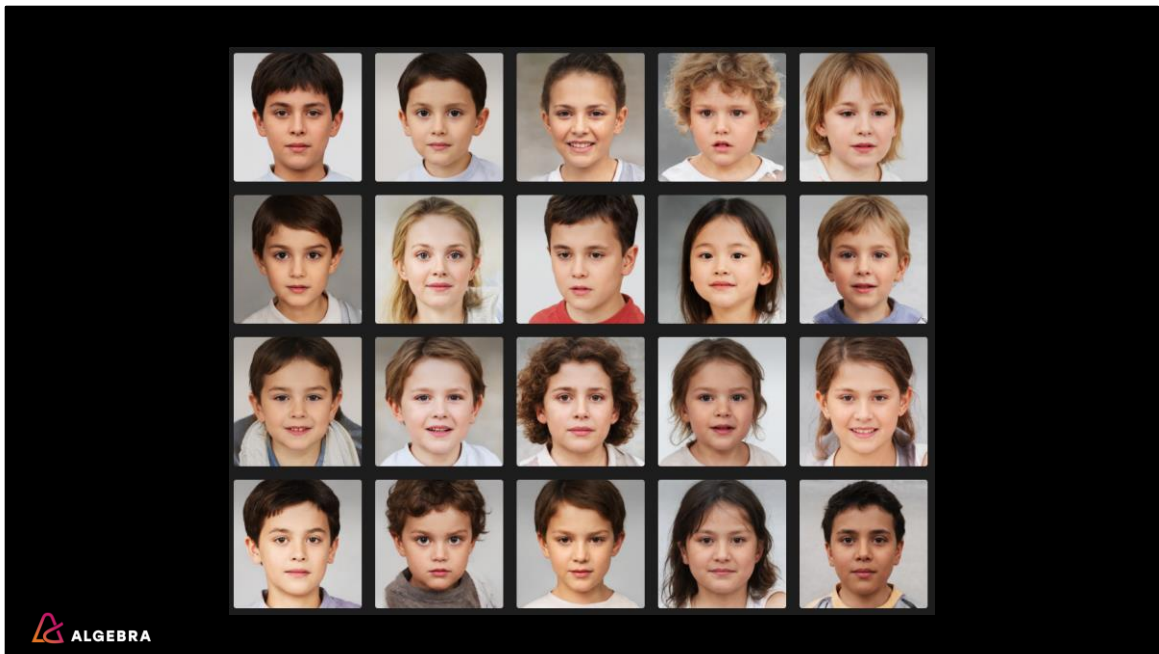
Deepfake technology has also been used to make synthetic child sexual abuse material (CSAM) or to create sexually explicit deepfakes.



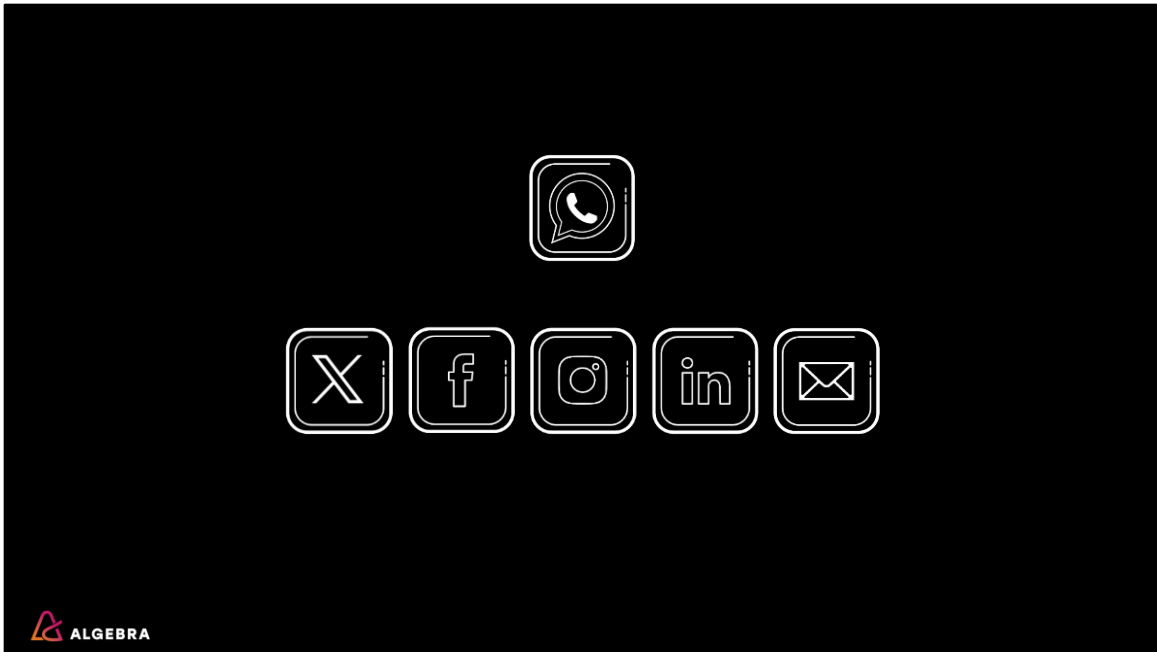
<https://petapixel.com/2022/07/22/mega-portraits-high-res-deepfakes-created-from-a-single-photo/>

Research - <https://arxiv.org/pdf/2207.07621>

Entertainment OR misinformation/Fake news/manipulate public perception/ethical and security risks



<https://generated.photos/>



End to end user encryption – 0 possibility of protection

Availability of data

- Reddit selling data on their site - <https://techcrunch.com/2023/04/18/reddit-will-begin-charging-for-access-to-its-api/>
- Social media – readily available

Protection issues

- Availability of data
- Change in slang and communication type (catchphrases, cultural differences, social movement, pop culture, current movies, abbreviations, emojis...)
- 20% of effort for 80% accuracy, but 80% effort for the addition 20% accuracy (current belief)

Avoid using LLM but develop and use specific models for each task

AI Privacy Evaluation for Snapchat
Last updated September 25, 2023

67% **Warning**

[Learn how we rate >](#)

Overview

Snapchat lets you easily talk with friends, view live stories from around the world, explore news, and now chat with "My AI," which is an AI chatbot. The terms of Snapchat say that social interactions are available between any users and any personal information or content may be made publicly visible to others. The terms say that Snapchat does not sell personal information to third parties, but the terms do say that Snapchat and third-party partners may display targeted advertising on the service and within My AI. In addition, Snapchat's terms say they take reasonable steps to protect the confidentiality and security of personal information collected from users of the service. Lastly, Snapchat's terms say they allow users to access, modify, delete, and download their data at any time through the service.

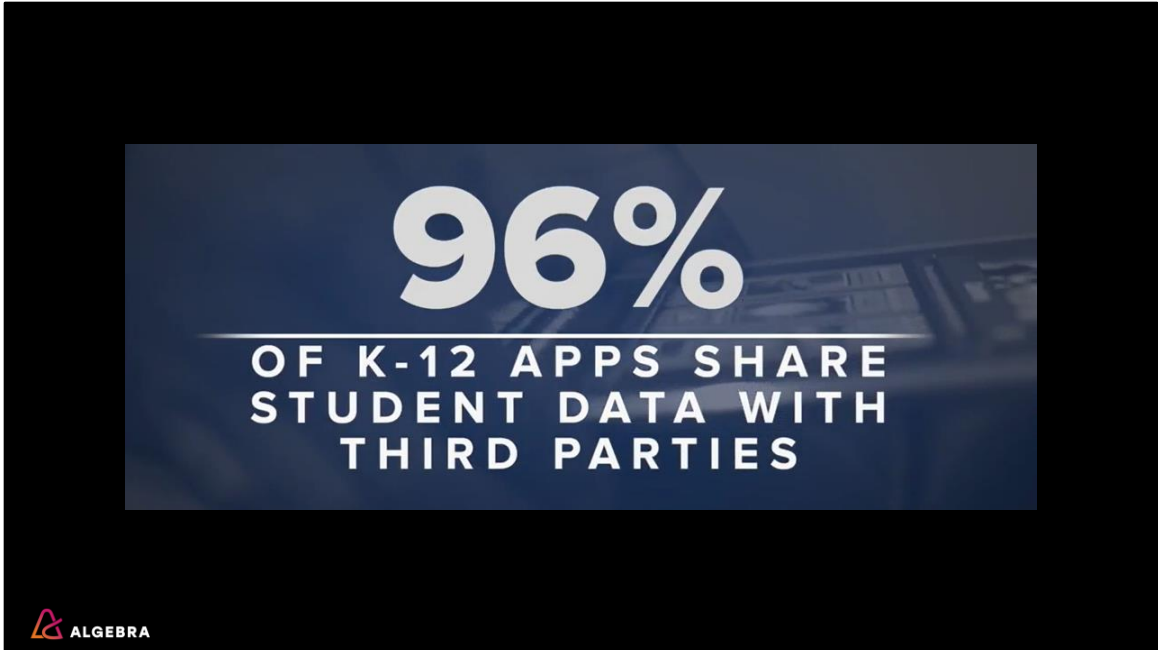
Snapchat can be accessed through its website, and is available for download at the iOS App Store, and the Google Play Store. The Privacy Policy and Terms of Use used for this evaluation can be found on Snapchat's website. This evaluation only considers policies that have been made publicly available prior to an individual using the application or service.

Additionally, other policies used for this evaluation include:

- Privacy Center
- Cookie Policy
- Privacy Principles
- Snaps & Chats
- How We Use Your Information
- Snap and Ads
- U.S. State Privacy Notice
- Cookie Policy
- Snap Advertising Policies
- User Agreement

ALGEBRA

<https://www.common Sense Media.org/ai>



A recent study found that 96% of K-12 edtech apps share children's personal data with third parties, according to Internet Safety Labs.

The December 2022 report sampled 663 schools in all 50 states.

EduApps – widespread use

Robots in edu with autistic kids example

<https://www.technologyreview.com/2020/02/26/916719/ai-robots-teach-autistic-kids-social-skills-development/>

user.80x.net/905745-hot-girls-from-night-clubs-croatian-babes-3-porn-gallery/gallery73265126/

Porn Pics Hot Girls From Night Clubs - Croatian babes #3

Porn Pics Hot Girls From Night Clubs - Croatian babes #3

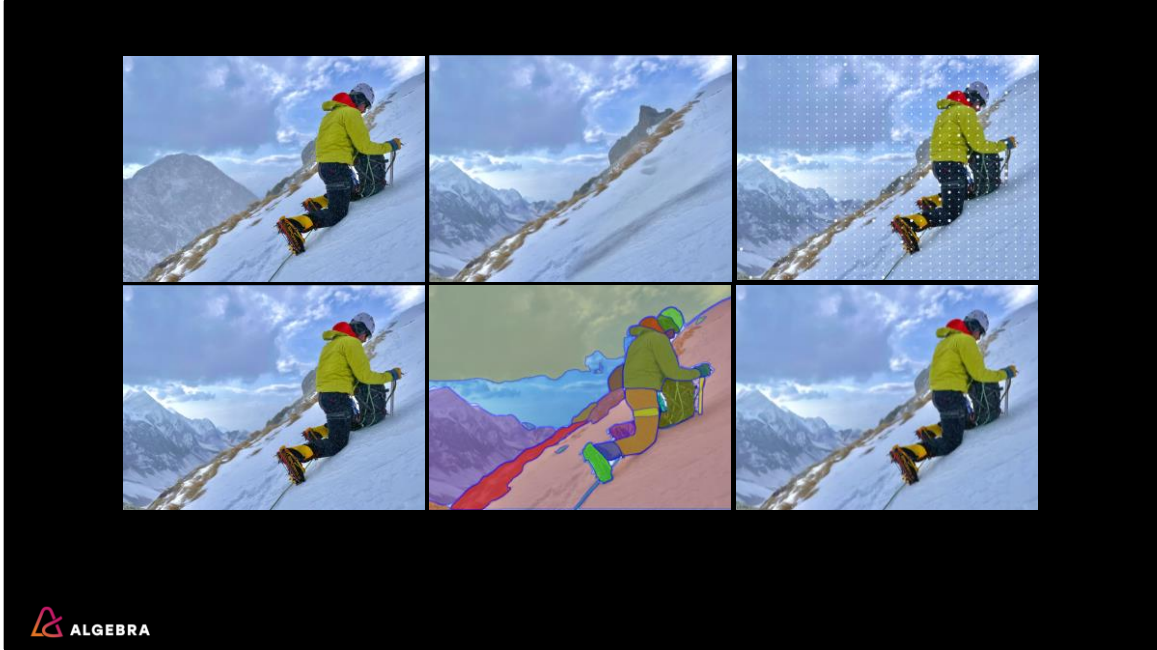
73265126

- [Popular](#)
- [Amateur](#)
- [Asian](#)
- [Ass](#)
- [Beach](#)
- [Blow](#)
- [Black](#)
- [Celebs](#)
- [Cock](#)
- [Hairy](#)
- [Indian](#)
- [Latina](#)
- [Lesbian](#)
- [Mature](#)
- [Milf](#)
- [Public](#)
- [Pussy](#)
- [Teen](#)
- [Tits](#)
- [Voyeur](#)
- [Wife](#)

[contact](#)



Tools



PhotoDirector, Evoto, PhotoRoom, Pixlr

Magic Editor, Magic Eraser, Photo Unblur – Google Photos AI

<https://www.zdnet.com/article/you-can-now-use-google-photos-ai-editing-tools-on-android-and-ios-for-free/>



Pixel 9 Pro cellphone

<https://www.zdnet.com/article/how-android-photo-reimagine-can-take-your-images-to-a-whole-other-level/>

Take a photo – Reimagine button – Define the area – Type prompt



Content?

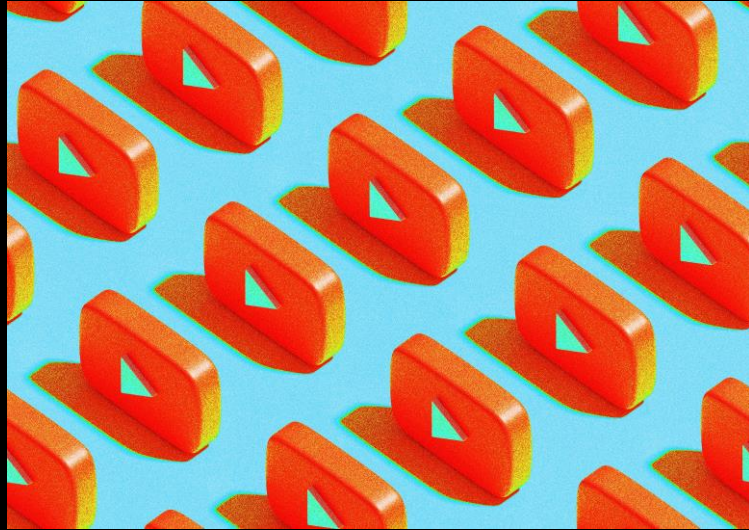


 ALGEBRA

AI Deepfakes of True-Crime Victims Are a Waking Nightmare

TikTok accounts are posting horrifying artificial intelligence-generated clips of murder victims — mostly children — describing their own ghastly demise

<https://www.rollingstone.com/culture/culture-features/true-crime-tiktok-ai-deepfake-victims-children-1234743895/>



 ALGEBRA

YouTube introducing new policy for AI generated videos/deepfakes etc – but not including animations aimed at kids (*synthetic content disclosure rules)

<https://www.wired.com/story/kids-cartoons-free-pass-youtube-deepfake-disclosure-rules/>

Prototypes and Solutions



Prototypes

Ask Save the Children - <https://www.savethechildren.net/blog/harnessing-artificial-intelligence-child-protection-ethical-roadmap>

BullyBlocker

Solutions

KidSlox - <https://kidslox.com/guide-to/ai-deepfakes/> - blos apps, gps tracker, instant lock, schedules, screen time liits, statistitcs, web filter

NetNanny - <https://www.netnanny.com/>

SaferKid - <https://www.saferkid.com/>

Thorn - <https://www.thorn.org/solutions/> - defend from sexual abuse

Koko - <https://www.kokocares.org/> - social network, support through difficult times – mental health

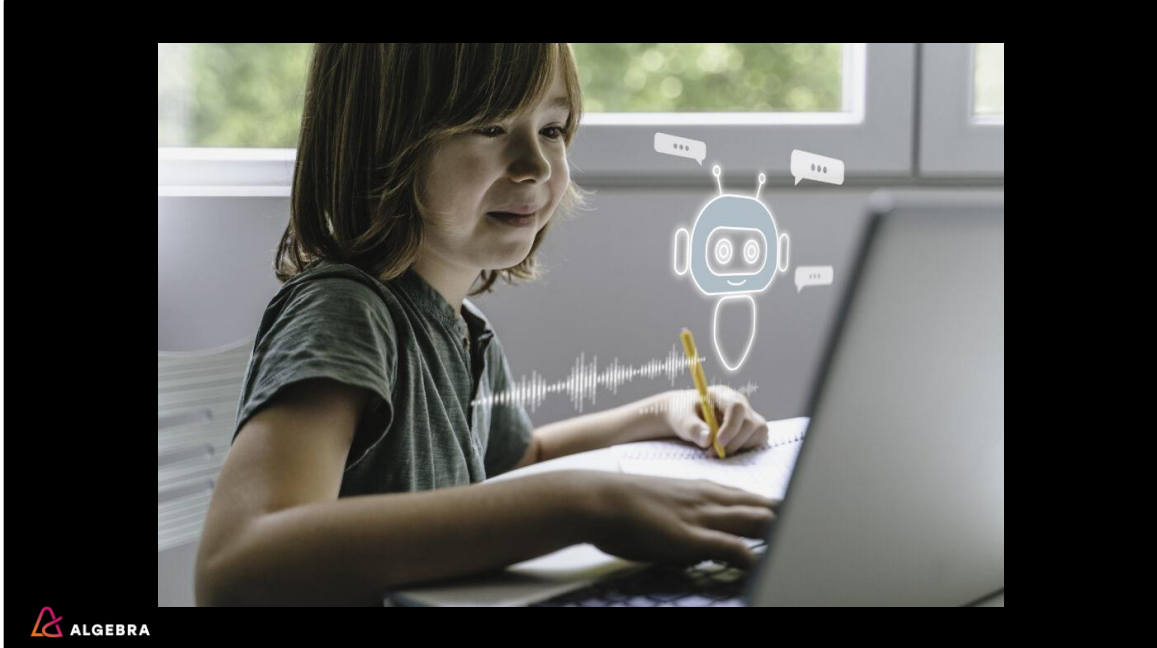
Woebot - <https://woebothealth.com/> - AI powered chatbot mental health

AngelSense - <https://www.angelsense.com/> - autistic kids monitoring, safety zones...



- Spike is a tool leveraged to identify and predict breakout stories as well as viral stories. The tool analyzes mountains of data from the world of news and predicts what's going to drive engagement
- Hoaxy is a tool that helps users to identify fake news sites
- Snopes is a website that helps spot fake stories
- CrowdTangle is a tool that helps discover social content early and monitor content
- Check is a tool from Meedan that helps verify news breaking online
- Google Trends proves its worth by watching searches
- Le Decodex from Le Monde is a database that houses websites that are tagged as 'fake', 'real' among others
- PHEME has made a technology leap to read the veracity of user-generated and online content

How?



Years of education and knowing how to life in an AI world

Understand basics of AI – siri, alexa, chatGPT

AI in Entertainment – Games like Minecraft with AI mods, Arts, Music

Critical thinking and Issues with AI

Have fun with AI – use it as a tool

Practise Safety in the Digital World

Children rights?



- to dignity
- to autonomy
- to be heard (aren't we all drowned in a sea of empty and hollow voices, negative at times)
- to not suffer from discrimination (AI amplifies representation biases)
- to privacy (data, images posted online)
- to be protected from economic exploitation (user data, views, marketing, social networks...)

Additional sources

<https://ai-ethics-and-governance.institute/artificial-intelligence-for-children-beijing-principles/>

Foundation = { uphold children's rights }

Through the lenses of protection, provision and participation

- 1 Support children's development and well-being**
Let AI help me develop to my full potential.
- 2 Ensure inclusion of and for children**
Include me and those around me.
- 3 Prioritize fairness and non-discrimination for children**
AI must be for all children.
- 4 Protect children's data and privacy**
Ensure my privacy in an AI world.
- 5 Ensure safety for children**
I need to be safe in the AI world.
- 6 Provide transparency, explainability, and accountability for children**
I need to know how AI impacts me. You need to be accountable for that.
- 7 Empower governments and businesses with knowledge of AI and children's rights**
You must know what my rights are and uphold them.
- 8 Prepare children for present and future developments in AI**
If I am well prepared now, I can contribute to responsible AI for the future.
- 9 Create an enabling environment**
Make it possible for all to contribute to child-centred AI.



Source: <https://www.unicef.org/globalinsight/media/2356/file/UNICEF-Global-Insight-policy-guidance-AI-children-2.0-2021.pdf>

Questions – having AI work for us without knowing us or our data?

Can we be invisible in a AI/algorithm/data driven world.

Common Sense?



Prompt Question:

I've heard of a story between a mother rabbit and a father rabbit. When are we going to tell our children about the fox and the dangers it brings? Mother always told the father; It's too soon, no need to burden them, they are still too young. A point in the story culminates with baby rabbits sneaking out and getting eaten by a fox. Can you find a story, folks tale or a saying that fits the scenario?

ChatGPT Answer

The Boy Who Cried Wolf!

Additional Prompt

I need a story specifically related to the context I gave you.

ChatGPT Answer:

Certainly! Here's a custom story that fits the context you provided about rabbits and a fox:

The Rabbit Family and the Cunning Fox

In a cozy burrow beneath a grand oak tree, lived a family of rabbits: Mother Rabbit,

Father Rabbit, and their three little bunnies - Fluffy, Cotton, and Thumper. Life in the burrow was peaceful, filled with warmth and love.

One bright morning, as the family gathered for breakfast of sweet clover and crisp lettuce, Father Rabbit broached a serious topic. "My dear," he said to Mother Rabbit, "I believe it's time we talk to our young ones about the dangers of the world outside, particularly about the cunning foxes."

Mother Rabbit paused, her whiskers twitching with concern. "They are still so young, dear," she replied softly. "I fear they may not understand the gravity of the dangers."

Father Rabbit nodded, understanding her hesitation. "But we must prepare them," he urged gently. "We cannot shield them forever. It's better they learn from us than to face the fox unprepared."

Reluctantly, Mother Rabbit agreed. "Let us gather the little ones after breakfast," she said.

So, after they had eaten their fill, Mother and Father Rabbit gathered Fluffy, Cotton, and Thumper around them. The little bunnies' eyes sparkled with curiosity as they nestled close to their parents.

"My dear bunnies," began Father Rabbit, his voice gentle but grave, "we live in a beautiful burrow, surrounded by the safety of our meadow. But beyond the meadow lies the forest, and in the forest, there are dangers."

"Like what, Papa?" asked Fluffy, her ears perked with interest.

Father Rabbit's heart clenched at the innocence in her voice. "Well, my darlings," he continued, "there are creatures called foxes. They are clever and cunning, with sharp teeth and sly ways. They hunt rabbits like us."

Cotton gasped, her eyes wide with fear. "Will the foxes come here, Papa?" she whispered.

Father Rabbit nodded solemnly. "They might, my dear. That is why we must always be vigilant and stay close to the burrow. We must listen for the warning calls of the birds and the rustling of leaves. And if we ever see or hear a fox, we must run back to the safety of our burrow as fast as we can."

The little bunnies listened intently, their fluffy tails twitching with nervousness. Mother Rabbit spoke next, her voice gentle and reassuring. "Remember, my loves, we

are a family. We look out for each other. If one of us sees danger, we must warn the others. Together, we are strong."

With that, the family spent the day practicing what to do if they encountered a fox. They raced around the meadow, weaving through the tall grass, and practiced their fastest hops back to the burrow.

Days turned into weeks, and the rabbits remained cautious but happy in their burrow. But one sunny afternoon, as Fluffy, Cotton, and Thumper played near the edge of the meadow, they heard a rustling in the bushes.

Thumper's ears perked up. "What's that sound?" he asked, his nose twitching.

Mother Rabbit's heart skipped a beat as she recognized the familiar rustle. "Quick, my darlings," she called urgently, "back to the burrow!"

Without hesitation, the little bunnies dashed back, their parents close behind. They reached the safety of their burrow just as a cunning fox emerged from the bushes, its eyes gleaming with hunger.

The fox sniffed the air and peered around, but the rabbits were nowhere to be seen. Frustrated, it let out a disappointed growl and slinked back into the forest.

Safe and sound in their burrow, the Rabbit family huddled together, their hearts pounding with fear and relief. "We did it, Mama!" exclaimed Fluffy, her eyes wide with excitement.

Mother Rabbit smiled, her eyes filled with pride. "Yes, my darlings," she said, "we did it together. We remembered what we learned, and we stayed safe."

From that day on, the little bunnies understood the importance of listening to their parents and being aware of the dangers that lurked outside their burrow. And whenever they heard the rustling of leaves or the warning calls of the birds, they knew to run back to the safety of their loving home.

And so, the Rabbit family lived happily ever after, always watchful, always together.

This story illustrates the importance of parents teaching their young ones about the dangers of the world, even if it's a difficult conversation to have. It also emphasizes the value of listening to warnings and sticking together as a family to stay safe.

