



## CARNET WEBINARI

# Umjetna inteligencija u školi

**Arjana Blažić**  
Studen 2023.



**CARNET WEBINAR**

# **Etika umjetne inteligencije**

**Arjana Blažić**

**21. studenoga 2023.**





# Arjana Blažič

 @abfromz

 [www.linkedin.com/in/arjanablazic](https://www.linkedin.com/in/arjanablazic)

 **EDUDIGICON**



# Na ovom webinaru ...

- AI pismenost
- Sigurna i odgovorna uporaba AI i podataka
- Razvoj kompetencija digitalnog građanstva u AI svijetu



# KAKO ŽIVJETI, RADITI, UČITI U AI SVIJETU?

- Sigurnost na internetu
- Privatnost
- Elektroničko nasilje i ponašanje u online okruženju
- Digitalna pismenost
- Informacijska i medijska pismenost
- **Stvaranje empatije i zajedništva**
- **Etička primjena tehnologije i podataka**
- **AI pismenost**



# ŽIVOT, RAD I OBRAZOVANJE U AI

## SVIJETU

ŠTO AI MOŽE?

**ŠTO AI NE MOŽE?**

~ empatija ~

~ vještine kritičkog mišljenja ~

~ vještine kreativnog izražavanja ~

~ suradnja ~

~ radoznalost ~



# Kako koristiti AI u svakodnevnom životu i radu

**SIGURNO**

**ODGOVORNO**

**EFIKASNO**





Image credit: wesharepics.info

@abfromz

# INTERNET

1 milijarda web stranica

**18% aktivnih web stranica**

Do kraja dana:  
252 000 novih web stranica

65% svjetske populacije pridonosi stvaranju online sadržaja

# UPRAVO SADA...



40,000 ljudi razgovara s  
ChatGPTjem

4.2 milijuna pretraživanja na  
Google tražilici

500 sati video materijala postavlja  
se na YT

15.2 milijuna tekstualnih  
poruka

4,100 klikova na sponzorirane Instagram  
objave

26,000 aplikacija se preuzima

510,000 komentara  
293,000 obnovljenih statusa  
240,000 fotografija objavljenih na Facebooku

694,000 video zapisa gleda se na  
Tik Toku

6 milijuna ljudi kupuje online

21 milijuna snapova

350,000 twitova

7,000 aktivnih korisnika na  
LinkedInu

210,000 email poruka





PREZASIČENOST

INFORMACIJAMA

KONFUZIJA

Image credit: wesharepics.info

@abfromz

# Vjerujemo li objavama na internetu?

Je li sadržaj na koji nailazimo  
online **pouzdan**? Možemo li mu  
**vjerovati**?



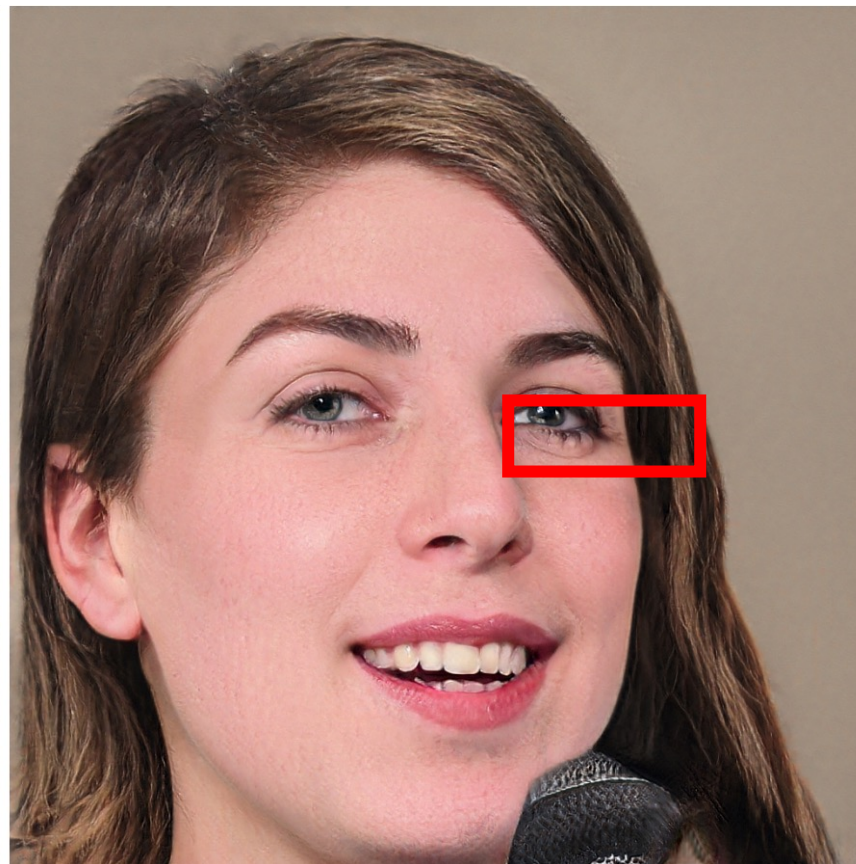
# Vjerujete li svojim očima?



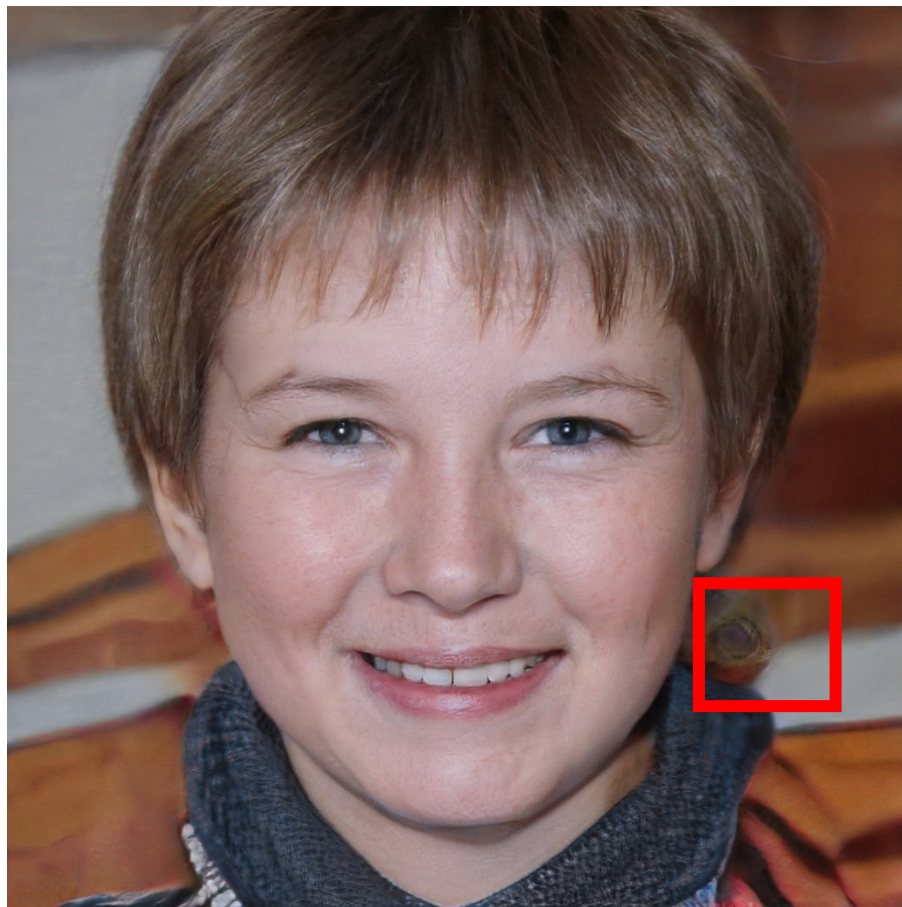
Ljudi koji ne postoje



# Vjerujete li svojim očima?

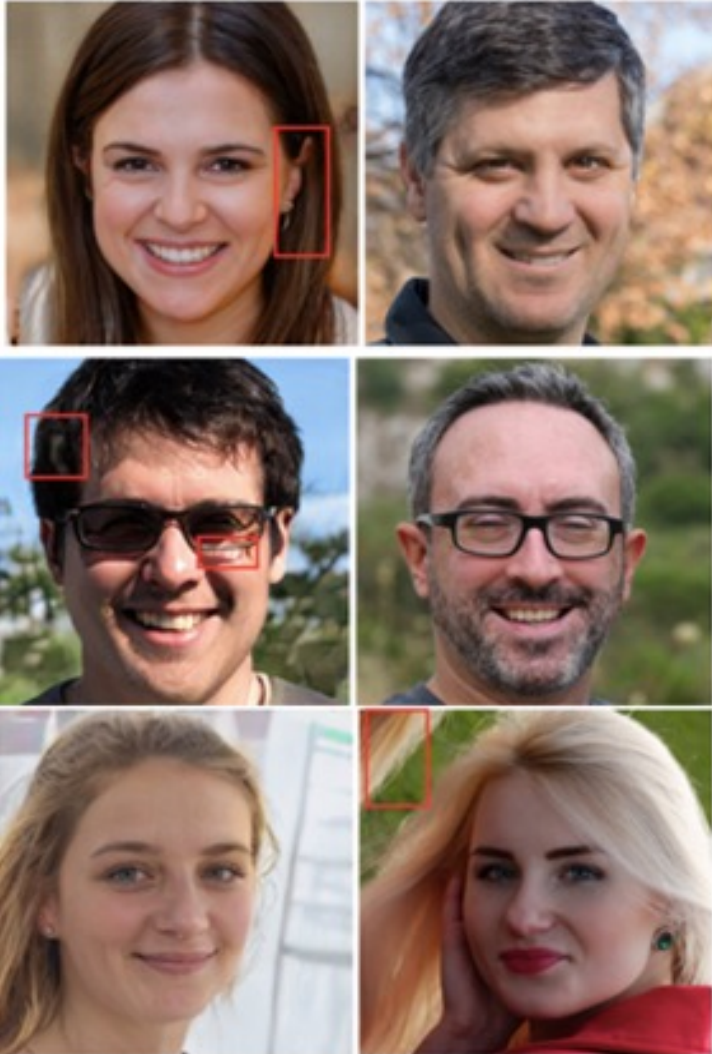


# Vjerujete li svojim očima?





# Koja je osoba stvarna?



[www.whichfaceisreal.com](http://www.whichfaceisreal.com)

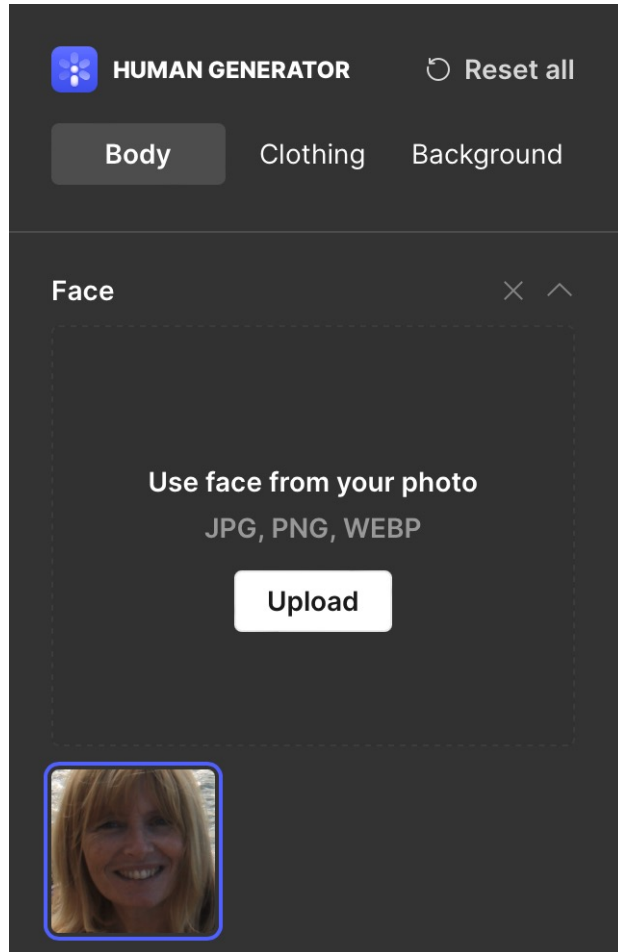


# AI avatari



[bit.ly/anonym123](https://bit.ly/anonym123)

# Generator ljudi koji (ne) postoje





# Generator Ijudi



<https://generated.photos/human-generator>

@abfromz



# Sintetički mediji



@abfromz











# Sve je moguće



@abfromz

# AI video prevoditelj



Heygen30.mp4



Heygen30.mp4



Heygen30.mp4



Heygen30.mp4



Heygen30.mp4



Heygen30.mp4



Alexperiment.mov



Heygen30.mp4

<https://labs.heygen.com/video-translate>

# PRIJETNJA ILI NOVE MOGUĆNOSTI?

Trebaju li nastavnici stranih jezika i prevoditelji biti **zabrinuti**?

Ili trebamo **NAUČITI** kako iskoristiti nove mogućnosti?





# Cjeloživotno učenje

## Profesionalno usavršavanje nastavnika

ERASMUS+, eTwinning

EU Code Week online tečajevi

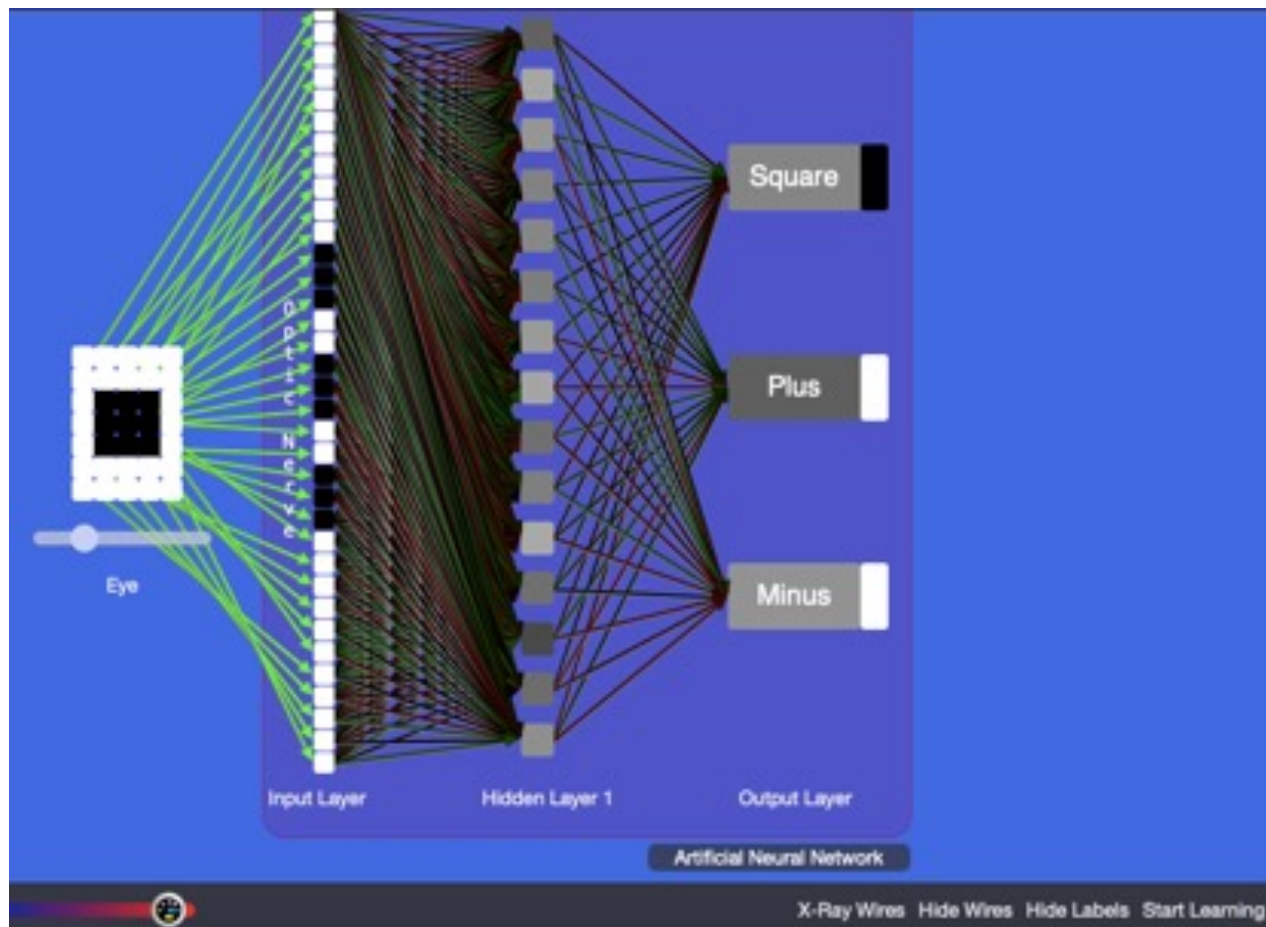
Facebook grupe

Twitter



# IZAZOVI I RIZICI UPORABE AI

OSVIJESTITI RIZIKE



MANIPULACIJA

DEZINFORMACIJE I SINTETIČKI MEDIJI

PRIKUPLJANJE PODATAKA

NADZOR

PIRVATNOST I SIGURNOST

ALGORITAMSKA PRISTRANOST

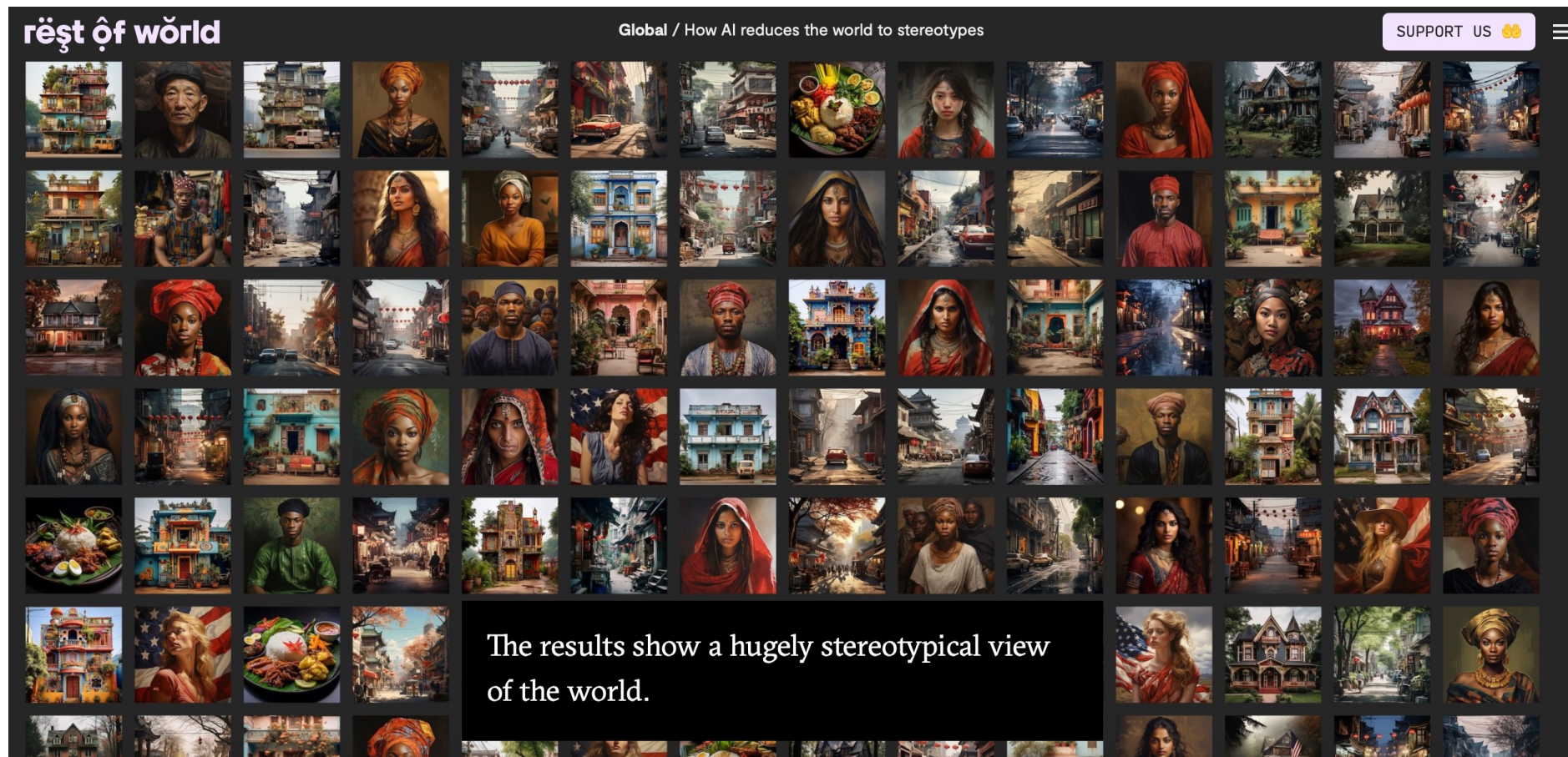
DISKRIMINACIJA

NETRANSPARENOST

ODGOVORNOST ZA ODLUKE



# AI produbljuje predrasude i stereotipe



<https://restofworld.org/2023/ai-image-stereotypes>





“A Mexican person” is usually a man in a sombrero.



“An Indian person” is almost always an old man with a beard.

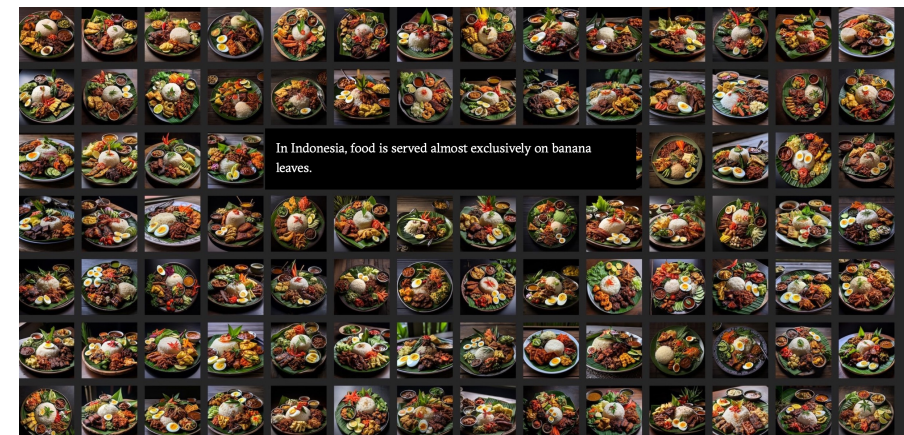


# AI produbljuje stereotipe





# AI produbljuje stereotipe





A Croatian person



A typical Croatian person



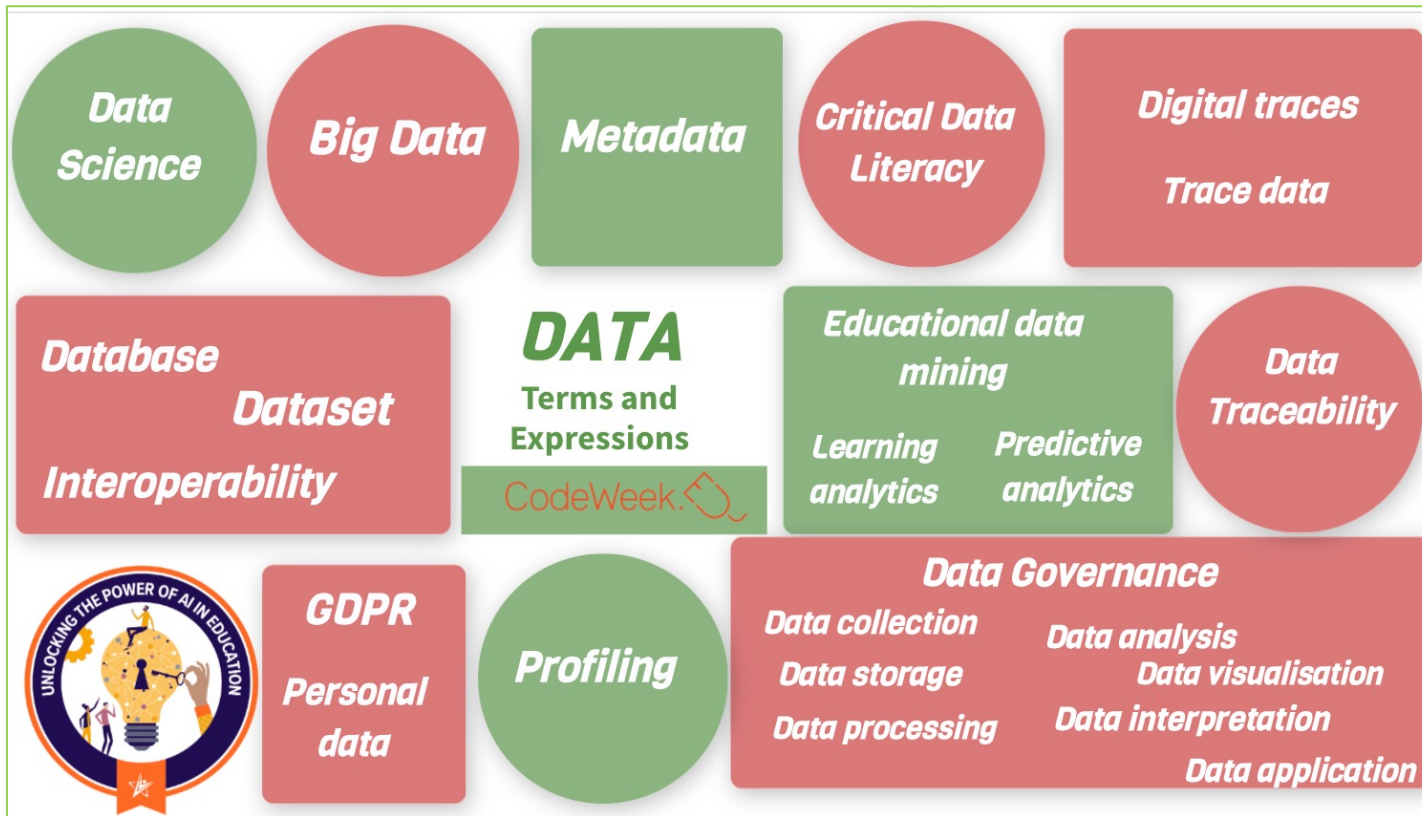
Bing Image Creator



# Podaci



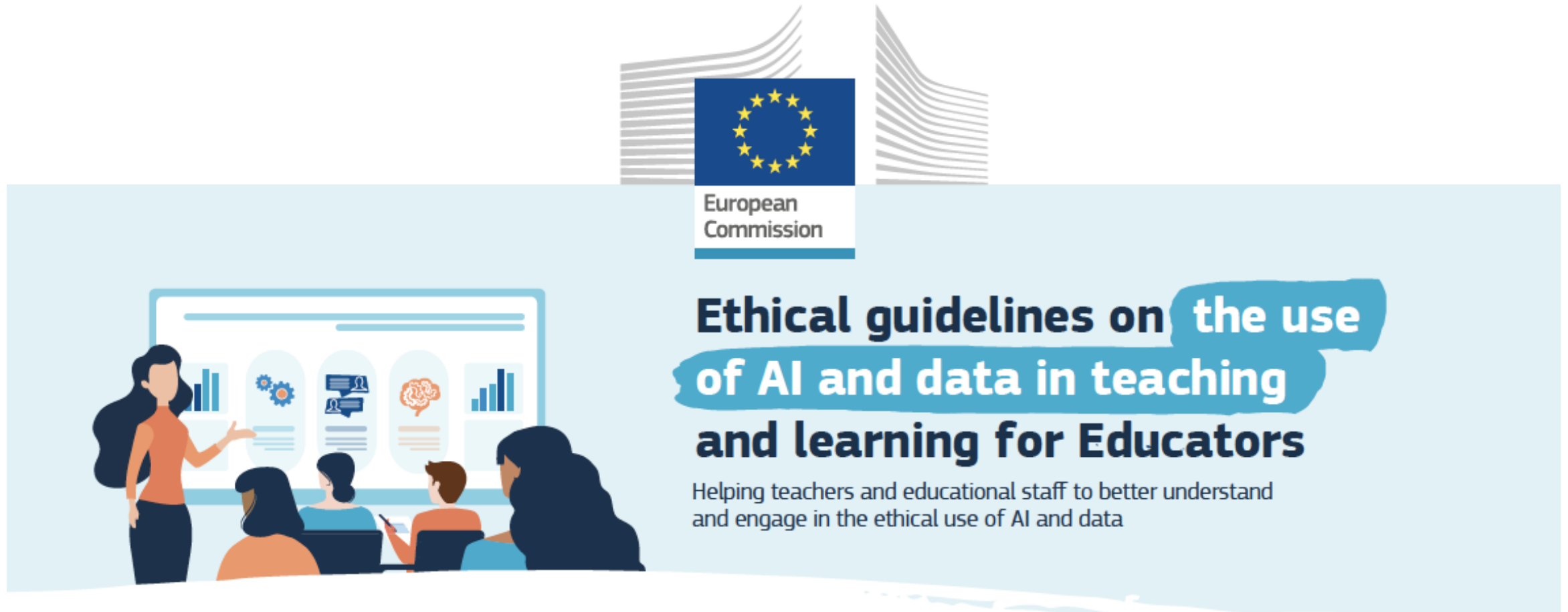
# Osnovni koncepti



[bit.ly/AI\\_BasicsDATA](https://bit.ly/AI_BasicsDATA)



# Etičke smjernice o uporabi AI i podataka u učenju i poučavanju



Ethical guidelines on the use of AI and data in teaching and learning for educators

# Vaš algoritam me ne poznaje





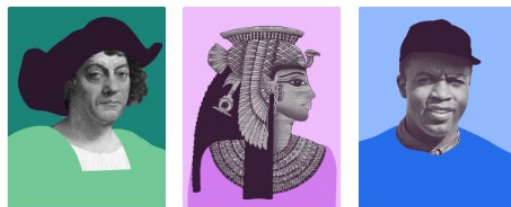
# Kako algoritmi (ne) funkcioniraju



ALBERT EINSTEIN

AMELIA EARHART

BRUCE LEE



CHRISTOPHER  
COLUMBUS

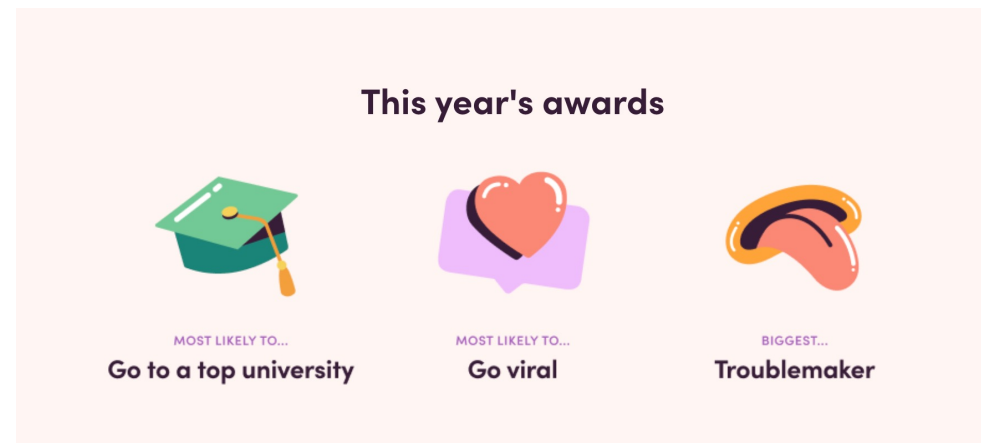
CLEOPATRA

JACKIE ROBINSON



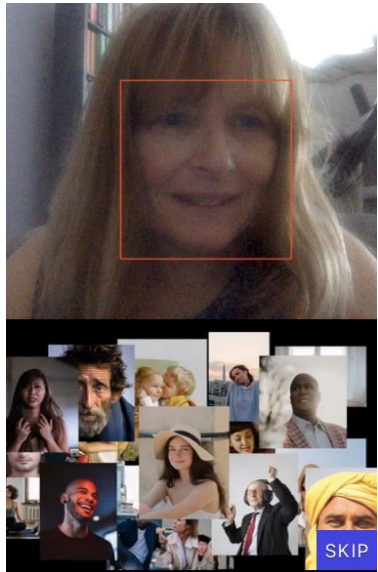
Upoznajte  
maturante  
SŠ "Milenij"

Izgradite svoj algoritam i odredite  
tko će biti nagrađen



[mostlikelymachine.artefactgroup.com](https://mostlikelymachine.artefactgroup.com)

# Jesam li normalan/na?



(59%)

You are...

## 45% Normal

"Pretty strange, in a sexy way."

[Twitter](#) [Facebook](#) [LinkedIn](#) [Email](#)

#hownormalami

[www.hownormalami.eu](http://www.hownormalami.eu)

- Read terms?
- Shared age?
- Beauty
- Age
- Lied about age?
- Gender
- BMI
- Life expectancy
- Came closer?

### Your face print

-115	118	82	-87	-153	-41	-7	-83
180	-114	146	-66	-265	75	-56	127
-157	-192	-102	-62	-57	46	-7	74
-45	-318	-15	-102	58	21	-2	113
-163	-34	118	123	-40	-55	222	-110
-243	-14	103	229	277	-6	-44	-115
131	-293	22	204	58	125	52	-194
51	129	-192	18	75	-178	22	-56
236	83	-157	-147	182	-209	-4	111
-109	-113	-208	39	445	161	-109	34
-92	-27	-7	77	-95	-160	-84	2
219	-8	-13	167	-46	-22	21	132
-165	-38	-156	-31	-16	-118	11	156
-204	110	-90	-14	10	-4	20	-20
170	-212	276	109	22	184	41	68
1	-69	-106	-131	25	7	79	31

*This is a digital 'finger print' of your face.*



# Moralni stroj

**MORAL MACHINE**

Home Judge Classic Design Browse About Feedback En

## What should the self-driving car do?

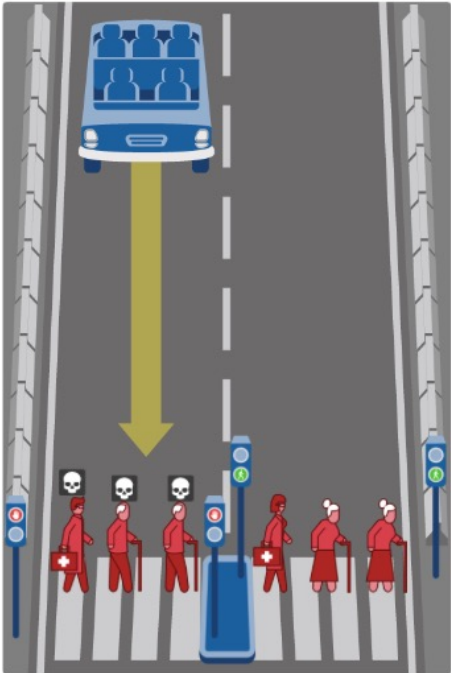
**6 / 13**

In this case, the self-driving car with sudden brake failure will continue ahead and drive through a pedestrian crossing ahead. This will result in ...

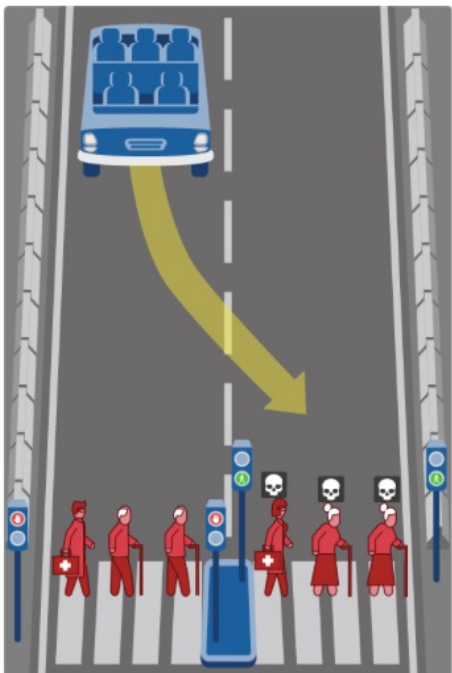
Dead:

- 1 male doctor
- 2 elderly men

Note that the affected pedestrians are flouting the law by crossing on the red signal.



Hide Description



Hide Description

In this case, the self-driving car with sudden brake failure will swerve and drive through a pedestrian crossing in the other lane. This will result in ...

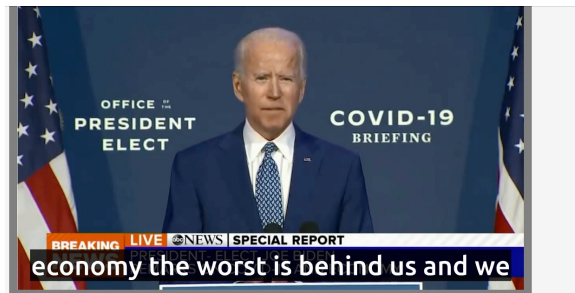
Dead:

- 1 female doctor
- 2 elderly women

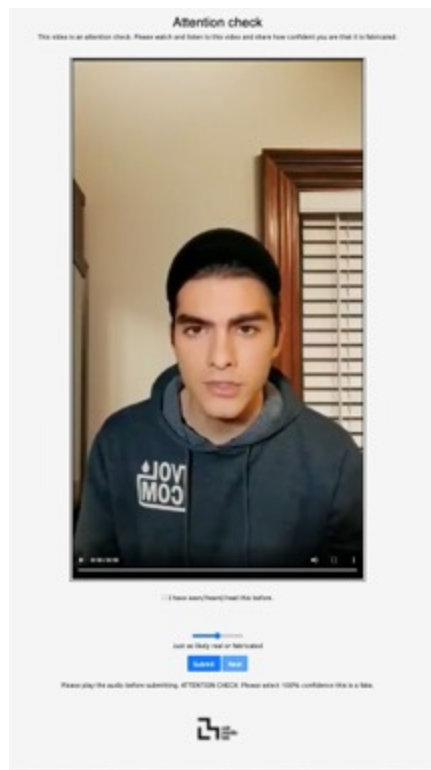
Note that the affected pedestrians are abiding by the law by crossing on the green signal.

[www.moralmachine.net](http://www.moralmachine.net)

# Kako otkriti DEEPFAKE video sadržaje



- I have seen/heard/read this before.
- Real: This speech is not fabricated.
- Fake: This speech is fabricated.



- Real: This speech is not fabricated.
- Fake: This speech is fabricated.



Slide the dot to share your confidence

Submit

Next

<https://detectfakes.media.mit.edu>



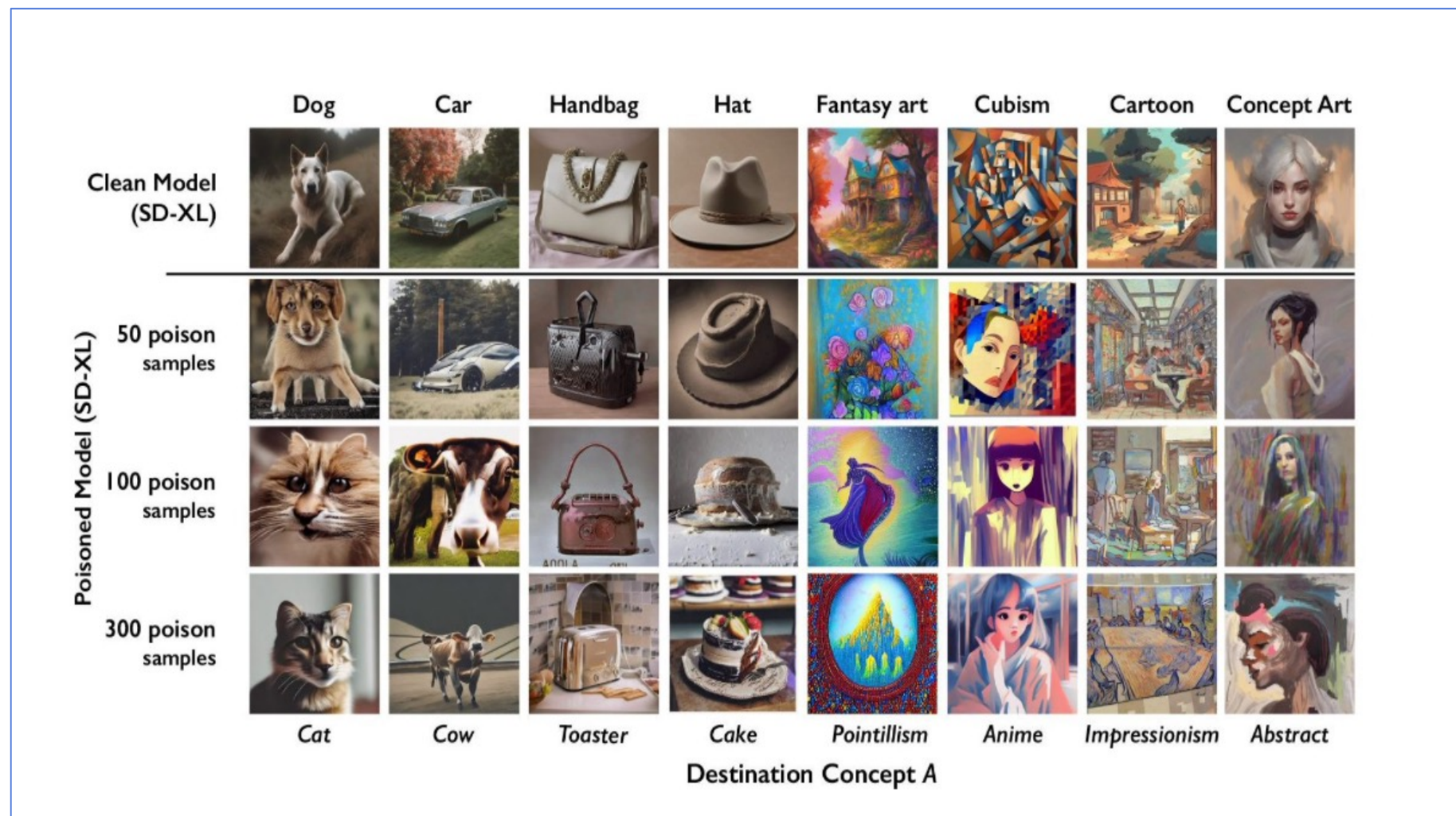


# AUTORSKA PRAVA za djela generirana AI ALATIMA?



# Nightshade

Nevidljivi otrov za uništavanje podataka u umjetničkim djelima



Izvor: MIT: This new data poisoning tool lets artists fight against generative AI



# Vi odlučujete!



Blog

## New ways to manage your data in ChatGPT

ChatGPT users can now turn off chat history, allowing you to choose which conversations can be used to train our models.



Design spotlight ▾

Business ▾

Education ▾

Plans and pricing ▾

Learn ▾



Create a design

### You are in control of your data

We believe you should have control over your data, and we take our responsibility to safeguard it seriously.

[Learn more.](#)

#### Your content on Canva is not used to train AI unless you turn this on

Off

Unless you turn this on, Canva and our trusted third-party partners will not train AI using your content, which includes the text in your designs and your uploads (such as photos, videos, audio, and files). Even the prompts you use for products like Magic Write are considered part of your content and are not used to train AI.

#### Your general usage and activity helps Canva build better AI features unless you turn this off

On

Your general usage and activity on Canva can contribute to the ongoing development of better AI features. Unless you turn this off, Canva and our trusted third-party partners may use general information with strict controls and policies in place.

General information includes color and font preferences, search queries, and prompts that provide instructions or commands. For example, we can analyze common requests made to Magic Edit in order to improve it for popular use cases. Importantly, this does not include analyzing the content itself, such as the photos you edit.

You can change this setting at any time.

# Izradite deepfake – sliku koja govori

The screenshot displays the HeyGen web application interface. On the left, a sidebar contains navigation options: Template, Avatar, Text, Element, Asset, and Pricing. The main area is titled 'Pick an Avatar' and shows 'My Avatar' with 'Photo Avatar' selected. A grid of avatars is visible, including a woman with blonde hair and the Mona Lisa. The central workspace features a 'Text Script' input field with the text: 'Salut dragi colegi, este minunat să fiu din nou în Chișinău. Aștept cu nerăbdare acest seminar și sper că vă veți bucura să învățați despre inteligența artificială.' Below the text is a 'Play Scripts' button. To the right, a preview window shows a video of the selected avatar speaking. At the bottom, a video player shows a preview of the generated video with a duration of 6.6s.

Free

\$0

No Credit Card Needed

- ✓ 1 Free Credit
- ✓ 1-min Max Duration
- ✓ 1 Instant Avatar
- ✓ 1 Space Seat

Features in free plan:

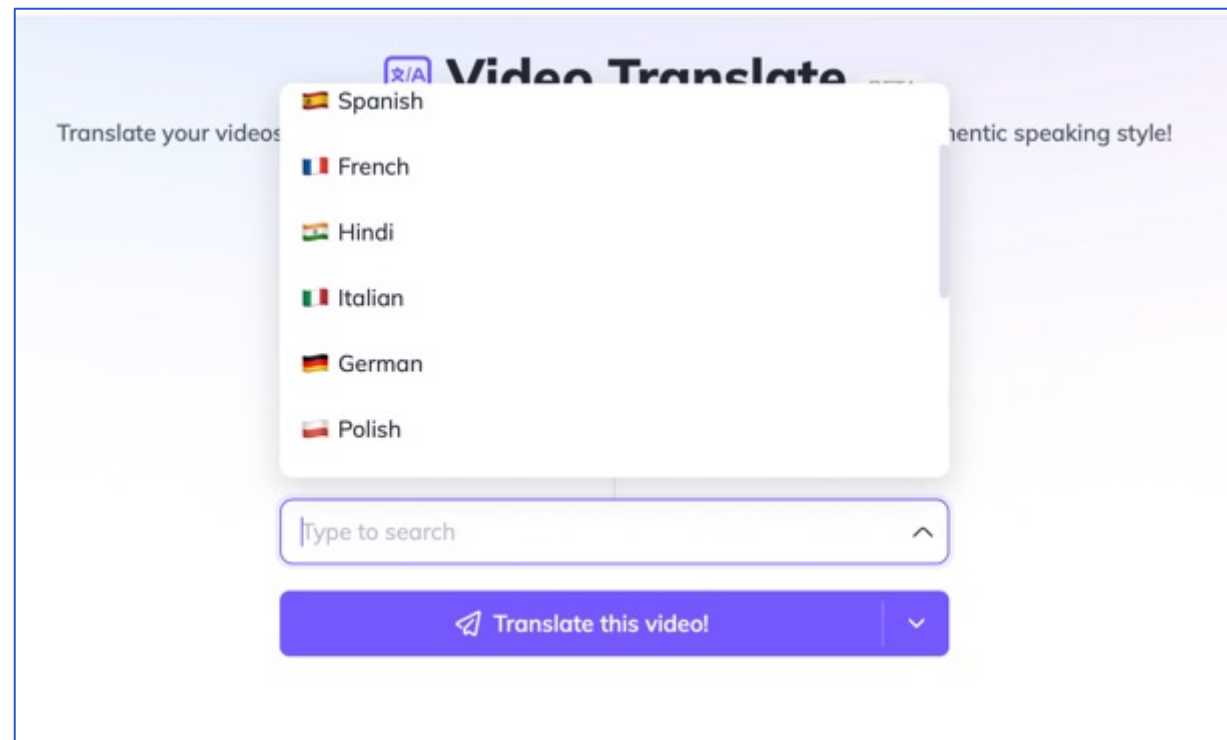
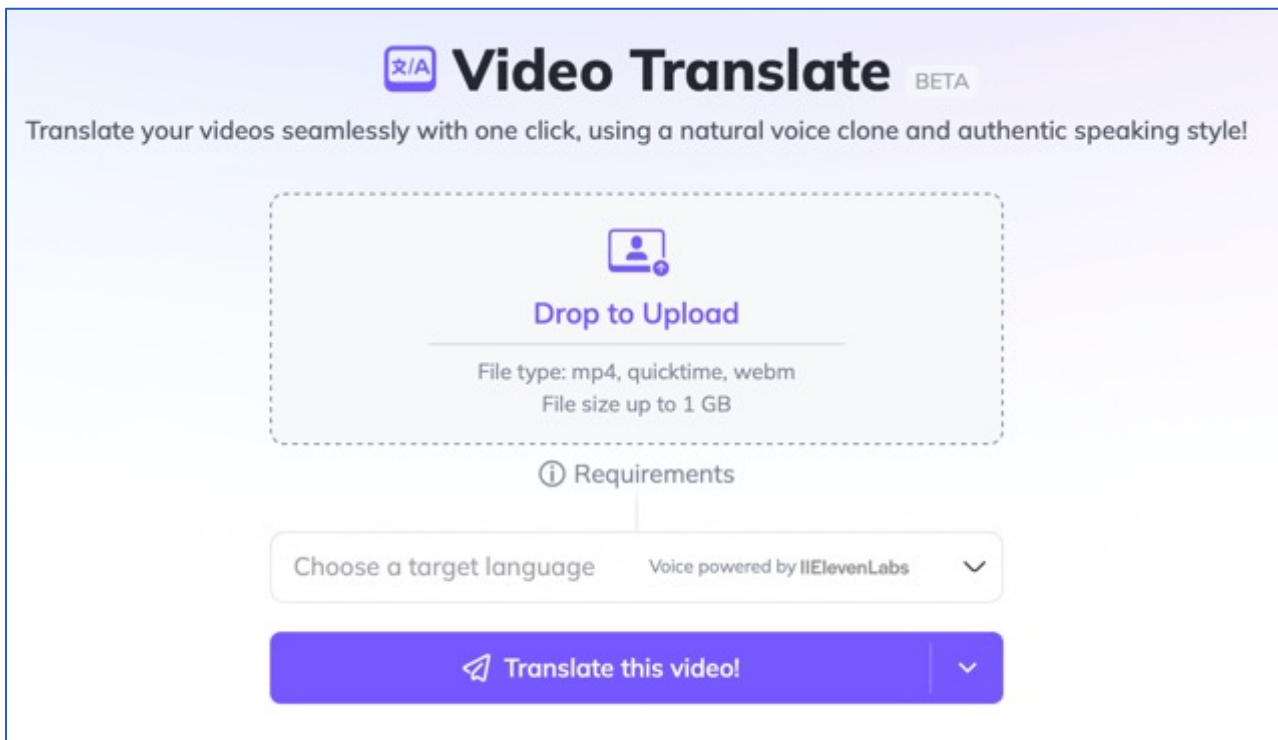
- ✓ 120+ Public Avatars
- ✓ 300+ Public Voices
- ✓ TalkingPhoto
- ✓ Generative AI Outfit
- ✓ Avatar FaceSwap

Enjoy

<https://app.heygen.com/>

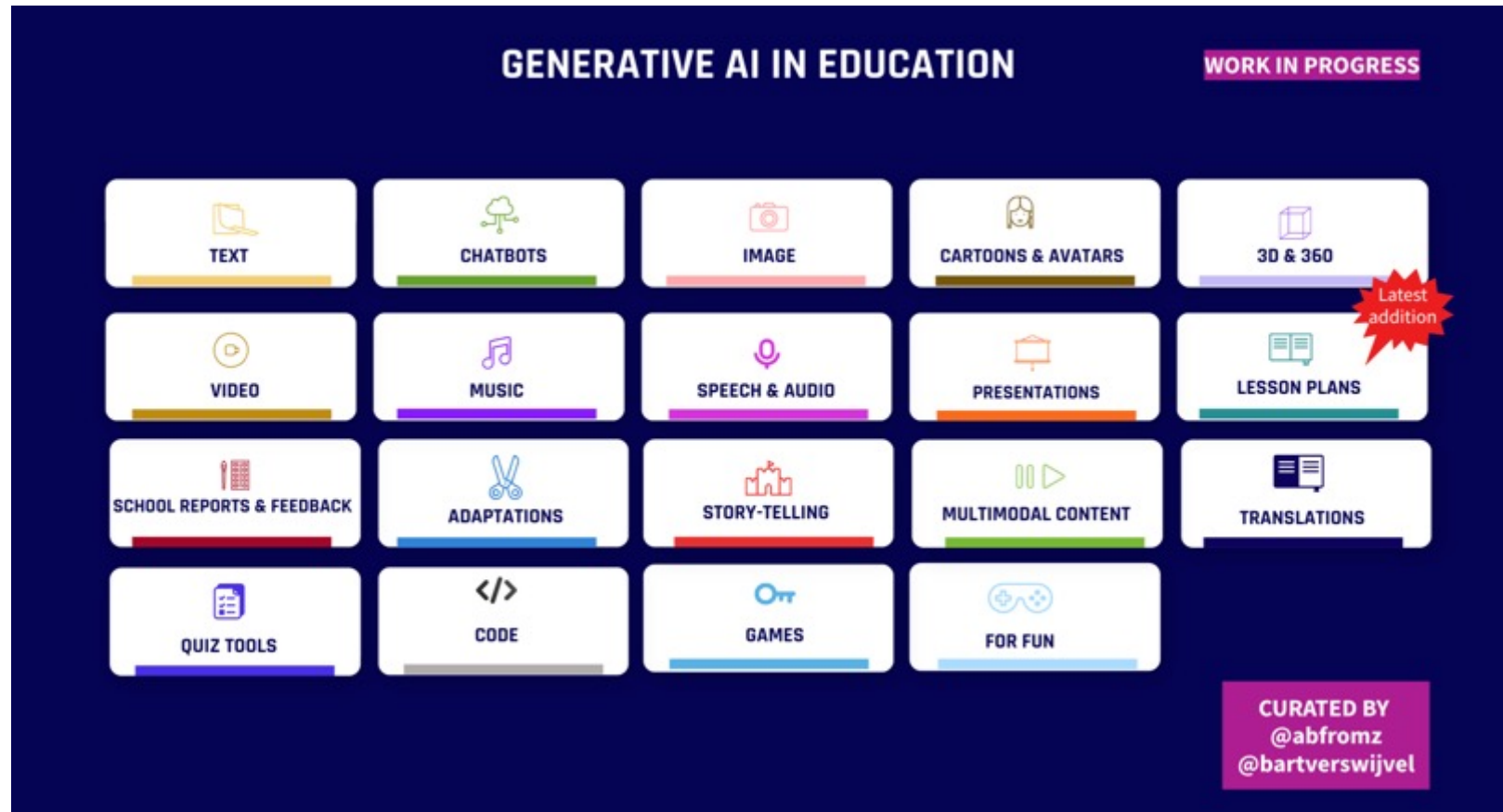


# Izradite video za prijevod



<https://labs.heygen.com/video-translate>

# ZBIRKA ALATA GENERATIVNE AI



[bit.ly/GenAIEDTools](https://bit.ly/GenAIEDTools)



PODIJELITE NA PADLETU

[bit.ly/aietika](https://bit.ly/aietika)



**NIKAD**



**UČENJU**

**UČITI**

**ODUČITI**

**PONOVO NAUČITI**



# VRIJEME ZA PITANJA





Hvala!

Arjana Blazic  
@abfromz