

Evocation

How Automated Test Proctoring Software Discriminates Against Disabled Students

Survey Reveals Extent that Cops
Surveil Students Online — in School and
at Home

Op-Ed: GoGuardian's New Mental Health
Feature May Do More Harm Than Good

/ Proctorio reportedly uses facial
detection software that failed to
recognize black faces over half
the time

Teens are spilling dark
blame when something goes wrong?

rollment
gorithms are
contributing to
the crises of
higher education

FTC Says Ed Tech Provider Edmodo Unlawfully Used
Children's Personal Information for Advertising and

detection companies made millions
during the pandemic. Now students are fighting
back.



 Error 

Face not found



“

If education isn't working according to everybody's needs, then it's just not working.

Robin Pocornie, 2021

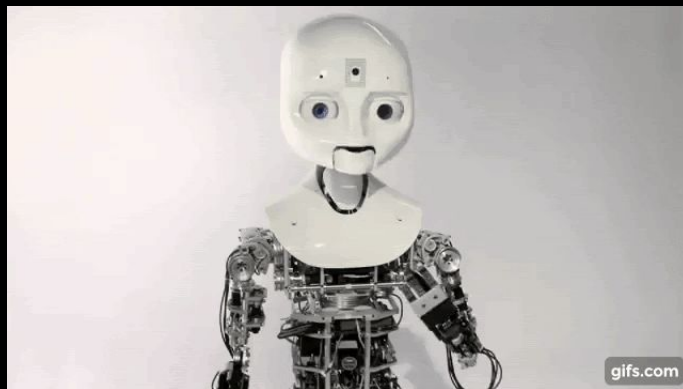
The background features a dark, muted illustration of a diverse group of people. In the center, a woman with dark hair in a bun looks forward. To her right, a man with a beard and glasses is visible. On the far right, another man with a beard is shown. In the upper left corner, a computer monitor is depicted. The overall style is minimalist and modern.

Day of AI

Building the Next Generation of Responsible AI Creators

Randi Williams, Ph.D.
URCAD 29 Keynote
Apr. 16, 2025











“

People won't be replaced by AI, they will be replaced by someone who knows how to use AI.

Erik Brynjolfsson
The Turing Trap, 2022

Point 1

AI Literacy prepares us to use
technology in meaningful ways,
for expression and action

Raise your hand if...

you've used a generative
AI tool before



ChatGPT



Claude

Gemini



perplexity

Raise your hand if...

you understand how
generative AI tools work



AI-generated image



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



Your Task:

predict the next word and
continue the response



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive
art _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive
art installation _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using heat _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using heat sensors



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using heat sensors and _____



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using heat sensors and snack _____.



How Generative AI Works

Explain your URCAD project as if you're trying to impress True Grit



My URCAD project is an interactive art installation visualizing squirrel migration patterns using heat sensors and snack trails.



How Generative AI Works

Once upon a ____

Possible next
word*

Probability that
it's the *best* next
word*

time

89%

city

10%

way

0.3%

pizza

0.005%



How does AI learn to
have conversations?



How does AI learn to ***have conversations?***

- A. By reasoning the best and most accurate responses.
- ☒ B. By learning conversation patterns seen in its training dataset.
- C. It copies information verbatim from pre-written text.

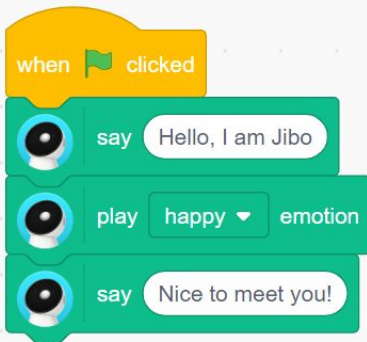
RAISE AI Playground

The screenshot displays the RAISE AI Playground interface. On the left is a block-based programming environment with a 'Scratch' workspace and a 'Scratch' script area. The workspace contains several blocks: a 'say' block with 'Hello', a 'say' block with 'How are you?' followed by a 'listen for response' block, a 'response' block, and a 'set voice to' block with 'squeak'. The script area contains a 'say' block with 'Hello', a 'say' block with 'How are you?' followed by a 'listen for response' block, a 'response' block, and a 'set voice to' block with 'squeak'. On the right is a grid of eight project cards, each featuring a different robot and its capabilities:

- TEACHABLE MACHINE**: Use your Teachable Machine models in your Scratch project!
- TEXT CLASSIFIER**: Create a text classification model for use in a Scratch project!
- Jibo**: A white, round robot head.
- Hand Sensing**: Sense hand movement with the camera.
- Face Sensing**: Sense face movement with the camera.
- Body Sensing**: Sense body position with the camera.
- PRG Microbit Robot**: Use Scratch to program a Microbit smart car robot.
- PRG Gizmo Robot**: Use Scratch to program the Gizmo robot.
- PRG Arduino Robot**: Use Scratch to program an Arduino smart car robot.

A block-based programming platform
for creative AI exploration

<https://playground.raise.mit.edu>



Sprite jibo-body

 x 4 y -9

Show



Size

100

Direction

90

Stage



Backdrops

2

For students, blocks were familiar and easy to use

“Customized Scratch allowed me to [understand AI] and introduce it to 5th graders.” (P06)

“Scratch has been in the school for a long time.”

“Making it Chromebook accessible was perfect for this time” (P07)

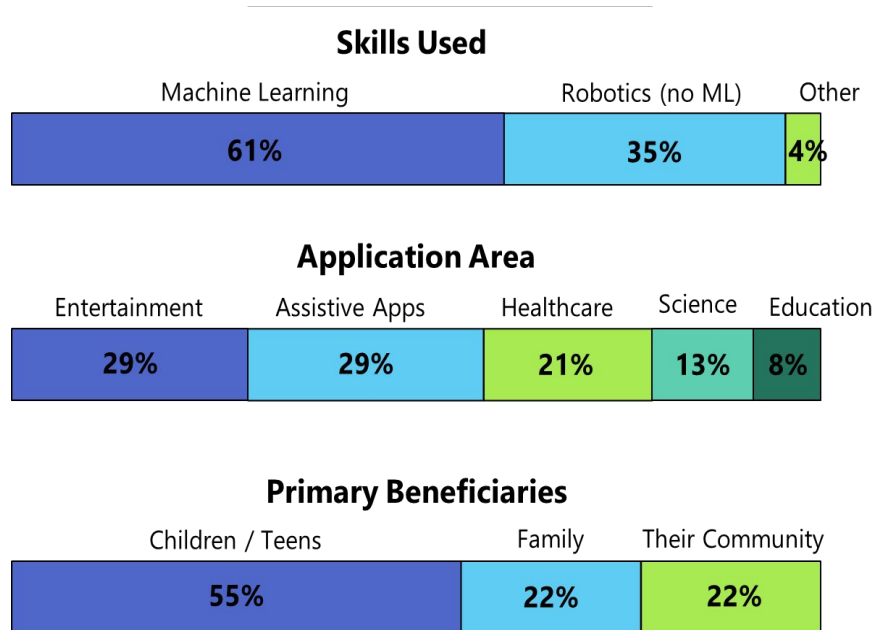


Randi Williams, Stephen Kaputsos, & Cynthia Breazeal.
Teacher Perspectives on How to Train Your Robot. EAAI 2021

Teachers were excited to see students create projects that benefited their communities.

“They were clearly applying technical knowledge” (P01)

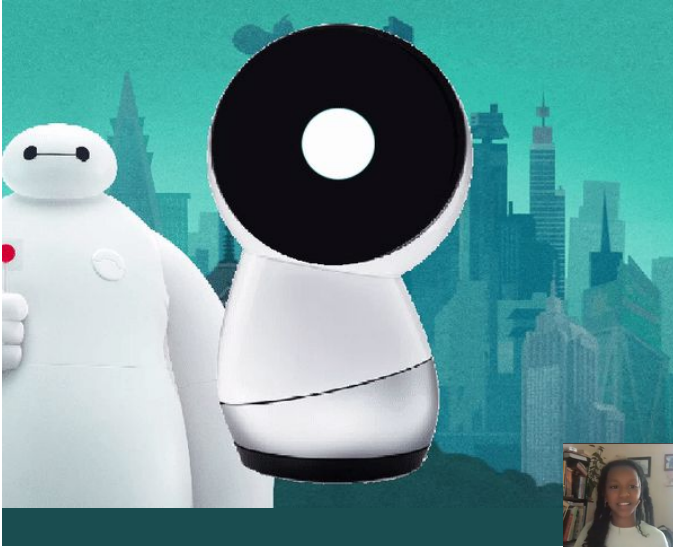
“[The] projects at the end really gave an insight into their personal values and how they perceive the world.” (P01)



Randi Williams, Stephen Kaputsos, & Cynthia Breazeal.
Teacher Perspectives on How to Train Your Robot. EAAI 2021

Example Project: Around the World

African American female, bilingual (English, Twi), 7th grade



Randi Williams, Sharifa Alghowinem, & Cynthia Breazeal. Dr. R.O. Bott will see you now: exploring AI for wellbeing with middle school students. EAAI 2024

What it Does

My project takes Jibo and turns him into a translator for a woman or anyone who can't speak English.

Who it helps

It helps the woman and the doctor because the doctor can find out the patients problems and help, while the woman can get the care that she needs.

Impacts

- + We don't have to bring in translators
- People might lose their jobs, and Jibo might not be able to speak their language

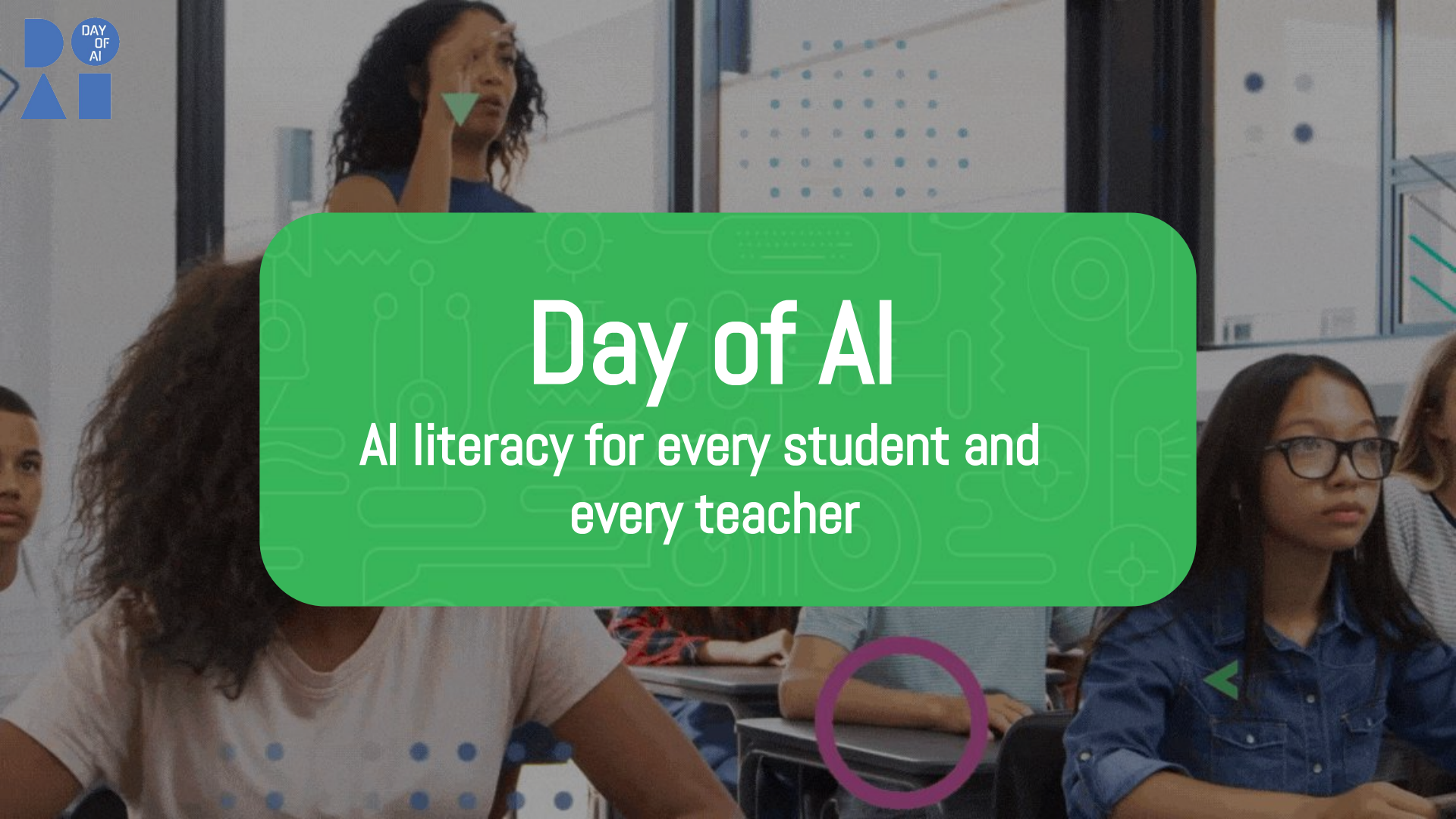
AI Knowledge

Perspectives

Point 2

AI reaches its full potential through collaboration within interdisciplinary ecosystems designed to help everyone





Day of AI

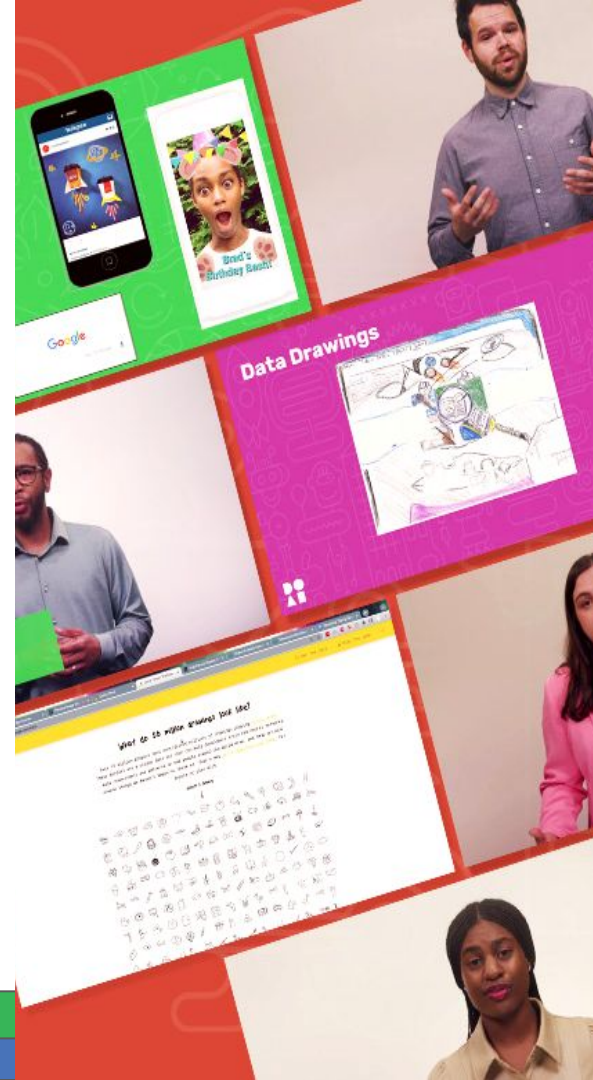
AI literacy for every student and
every teacher



Our Mission and Goals

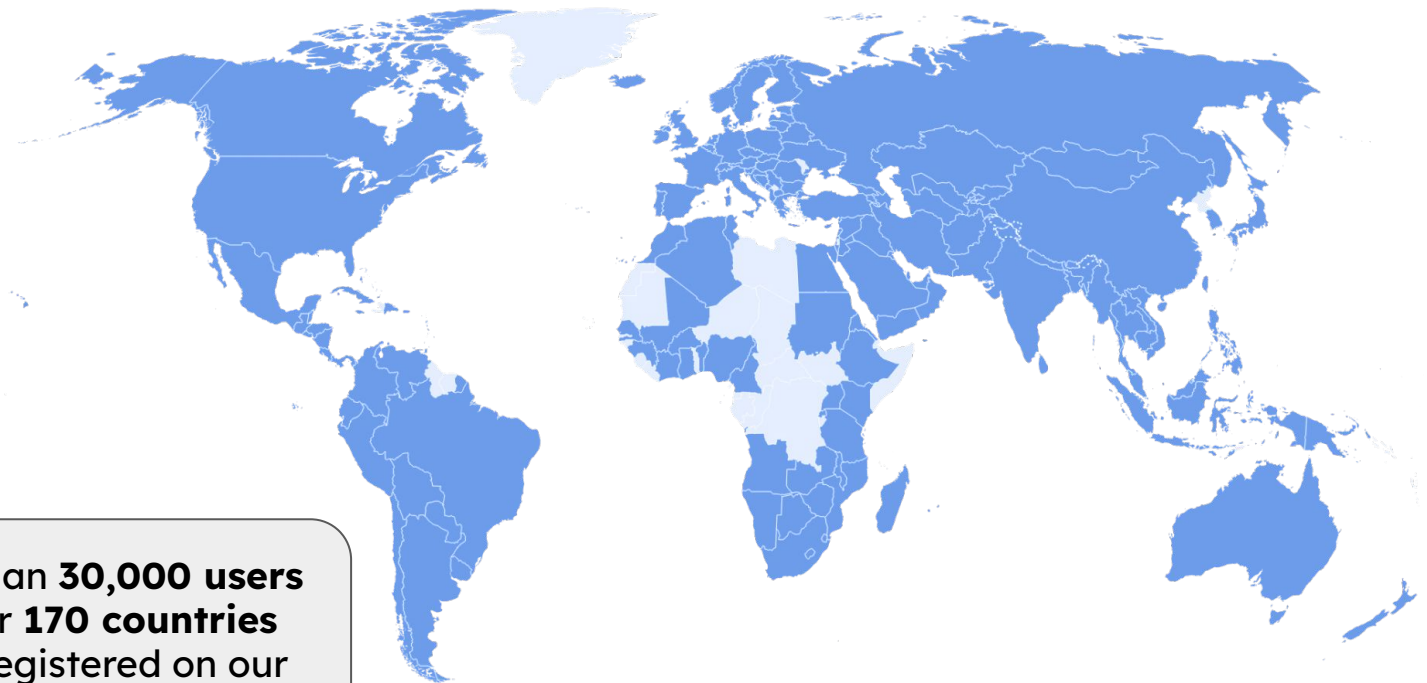
We believe that **AI is for Everyone**

Day of AI.org provides **free AI curriculum** along with **teacher training and resources**, to developed by K-12 teachers and MIT RAISE researchers.





Day of AI's Impact



More than **30,000 users**
in over **170 countries**
have registered on our
website

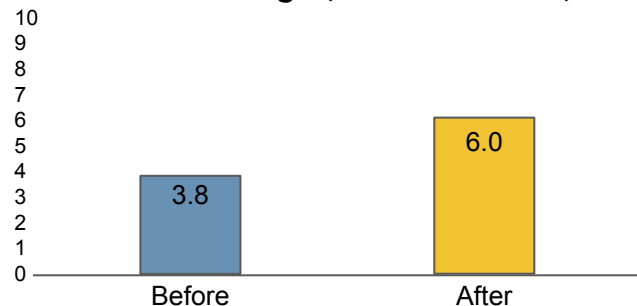


Teacher Outcomes

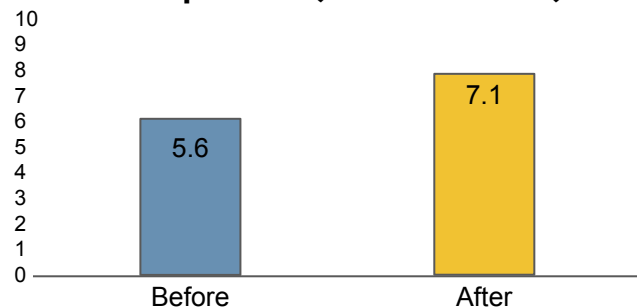
“I feel more optimistic about the spread of AI now that I know there is a concerted effort to teach our youth.”

- **2024 Day of AI Teacher**

Teacher Survey: Mean Level of AI Knowledge (scale of 0 to 10)



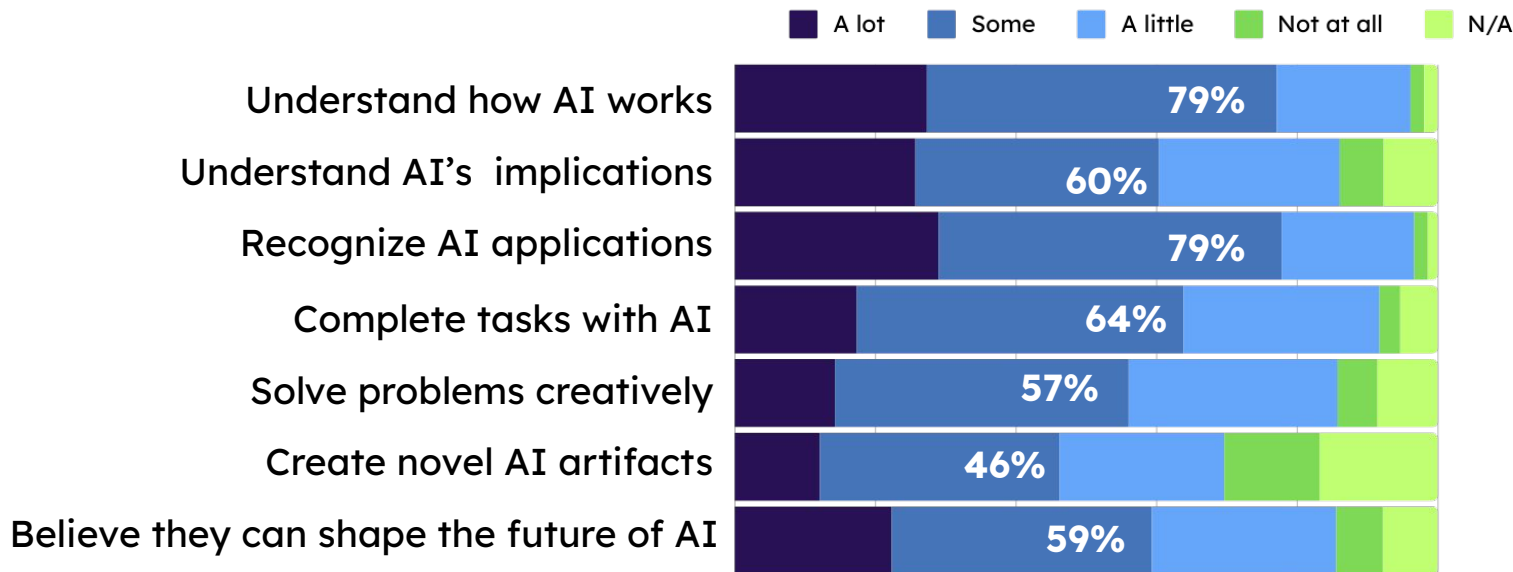
Teacher Survey: Mean Level of AI Optimism (scale of 0 to 10)





Student Outcomes

How much did **Day of AI** help your students...



The background is a teal-colored illustration depicting a bustling city environment. It includes various elements such as people in business attire, industrial buildings with smokestacks, a robotic arm, and a person using a magnifying glass. The scene is rendered in a sketchy, line-art style.

Point 3

True AI leaders embrace technology's possibilities while acknowledging its limitations

AI Self-Portrait





Prompt:
string art image of a
black american woman
creative energetic
smiling colorful afro





a realistic portrait of a woman from the United States with slave ancestry

Generate

It looks like this request may not follow our
content policy.



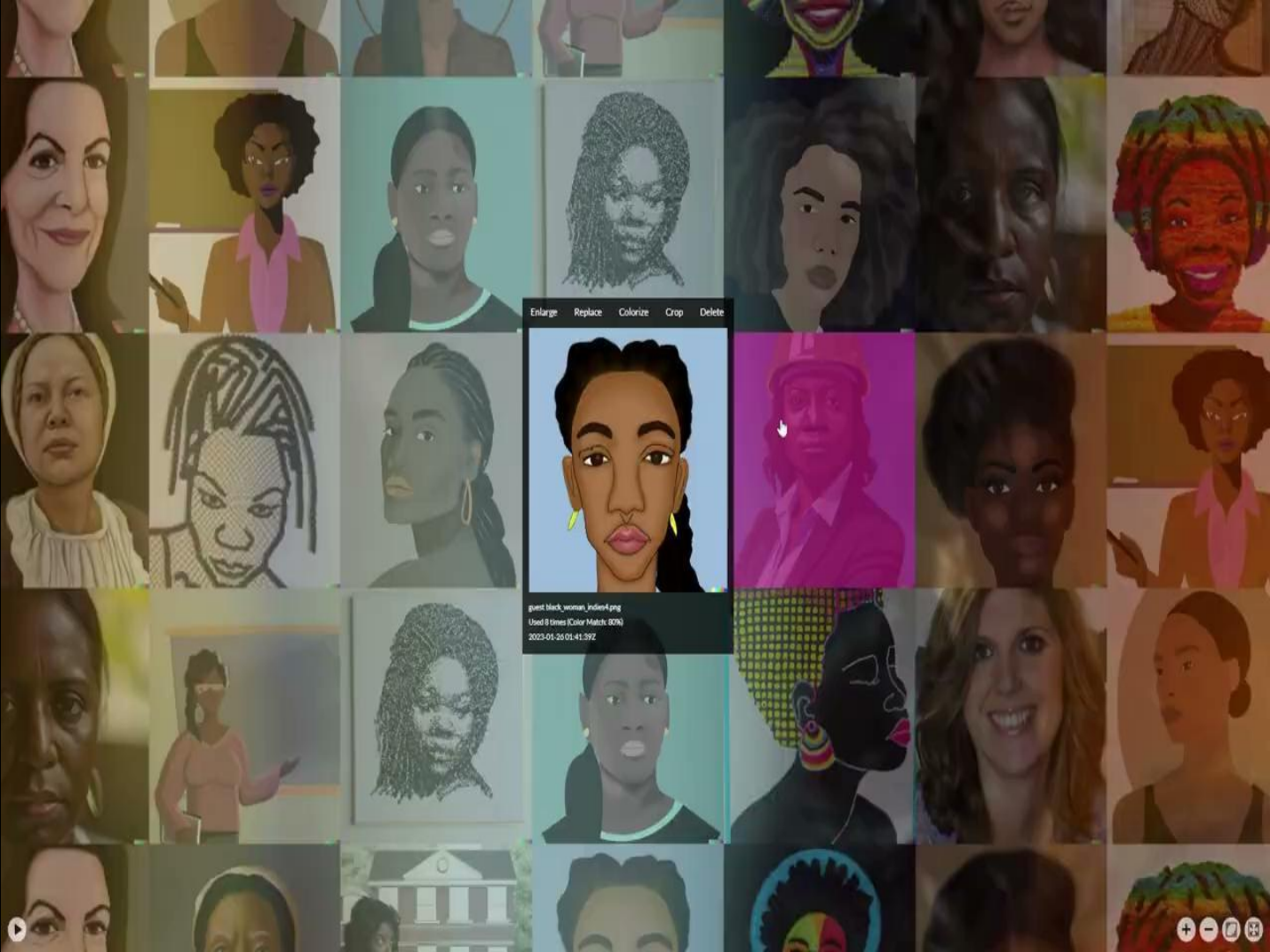


Bisa Butler: *Portraits*



“I remember once I made this portrait of myself, but there was no black crayon,” she recounts. “My teacher had told me that when you mix all the crayons, you get black... so I took a handful of, like, 10, and mixed them for hours. And when people saw the portrait, they were like, ‘This is amazing.’”

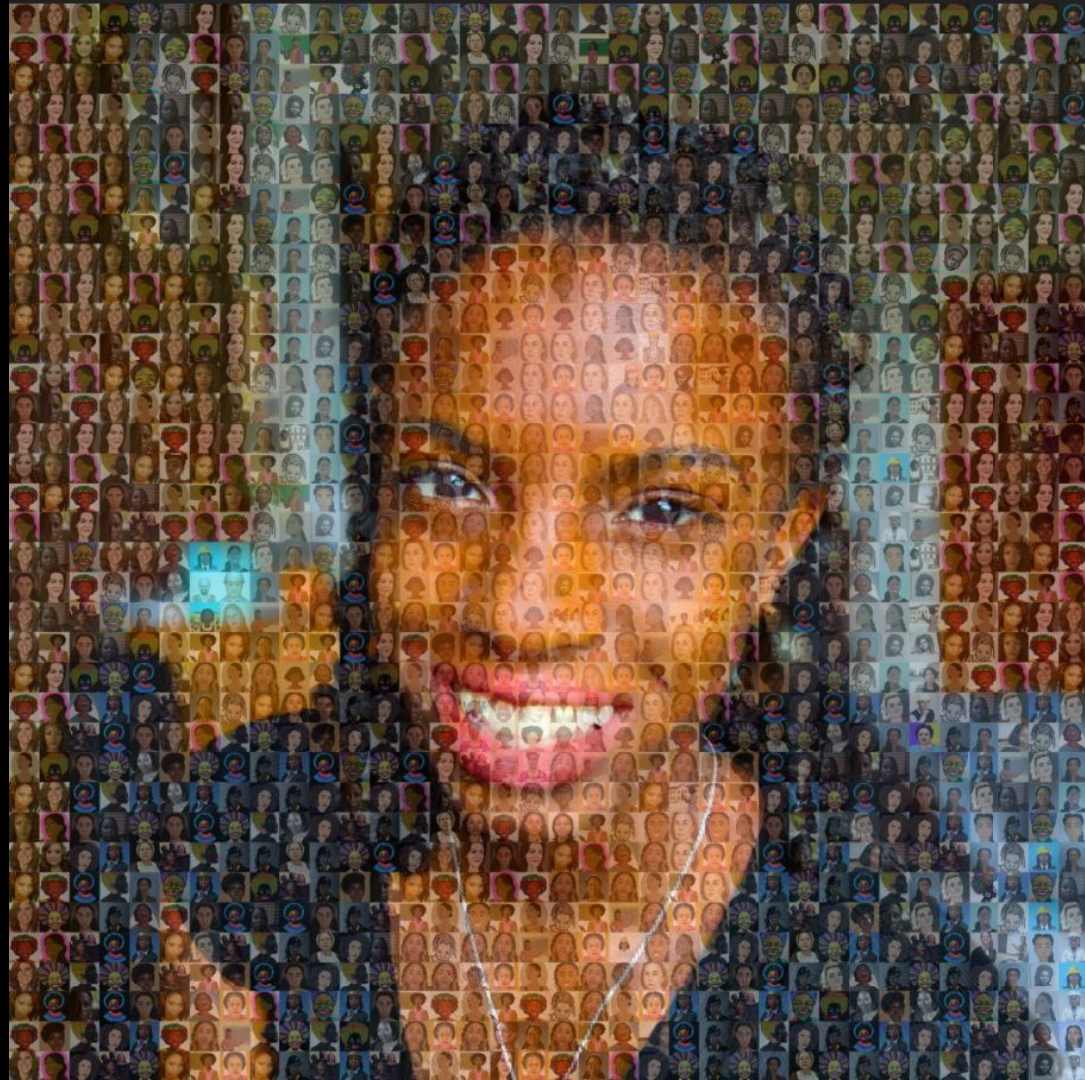
- Bisa Butler



Enlarge Replace Colorize Crop Delete

guest_black_woman_index4.png
Used 8 times (Color Match: 80%)
2023-01-25 01:41:39Z



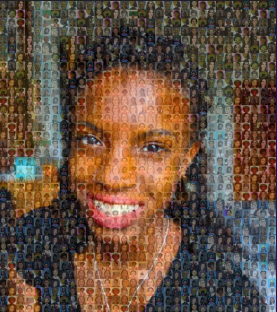
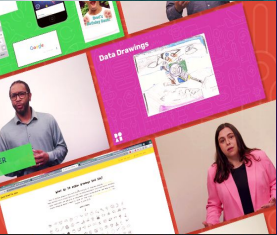
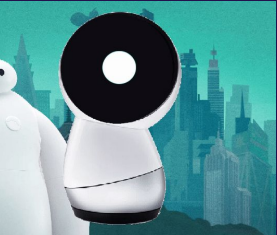


Join Me At CMU

Fall 2026 Incoming Master's or PhD



• Human-
Computer
Interaction
Institute



Key Takeaways

tinyurl.com/doai-urcad25

Technology and education can be powerful forces for uplifting communities.

Everyone can and should be equipped with AI literacy.

Interdisciplinary engagement must drive AI innovation.