



Glitzy here back with some important tips! Remember...

AI can be helpful, but it's just a tool - like a calculator or computer. When you need real advice, ask a trusted grown-up.

AI can make mistakes, so always double-check its answers!



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Girls Who Code is an international nonprofit working to close the gender gap in technology and leading the movement to inspire, educate, and equip students who identify as girls or non-binary with the computing skills needed to pursue 21st-century opportunities. Over the next five years, Girls Who Code will reach 5 million girls, women, and non-binary individuals to close the gender gap in tech jobs.

HAVE QUESTIONS ABOUT THE ZINE?  
Email us at [curriculum@girlswhocode.com](mailto:curriculum@girlswhocode.com)

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Words and illustrations by Chloe Varelidi

All AI-generated images were created with Adobe Firefly in accordance with GWC Acceptable Use Policy.



## Emerging Tech Zine Vol 1

# AI What is it?

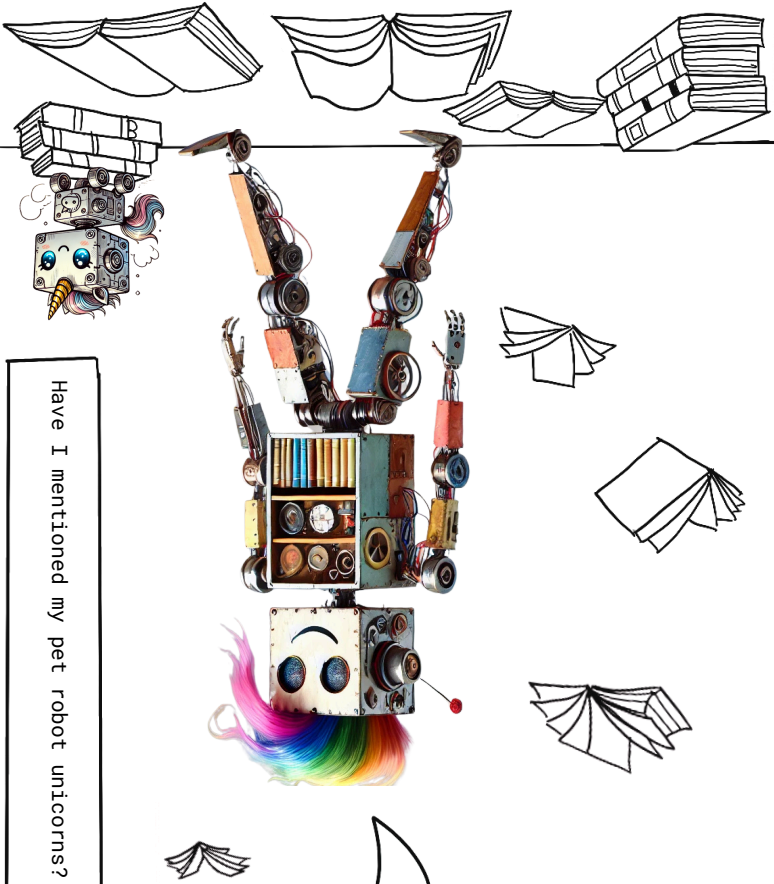
Psst.  
cut the door  
to open it



# What is AI ? ? ? ? ?

Good day! I am Unit-88 Glitterbook, though friends simply call me Glitzy-or, on occasion, "you marvelous chrome beast of wisdom." Think of me as a librarian who's read every book on every shelf in every library worldwide. I remember it all with the precision of an infuriatingly well-organized elephant. I'm here, ready to answer any and all your questions.

Have I mentioned my pet robot unicorns?



Page 1

## Unit-88 Glitterbook

**Nickname:** Glitzy

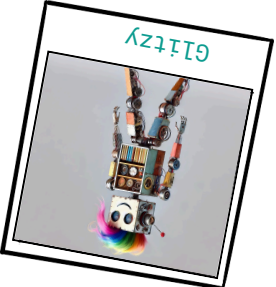
**Strengths**

Has read every fact, figure, and detail from a vast library of data.

**Weaknesses:**

Sometimes she answers your questions so fast she makes mistakes. Always ask her "How do you know that?"

Glitzy



## Generative AI

**Nickname:** Stella

**Strengths**

Can generate endless ideas, from pictures to music to stories.

**Weaknesses:**

Some of her ideas turn out amazing, but others... let's just say they're "unique."

Stella



## Machine Learning

**Nickname:** Astra

**Strengths**

Excels at recognizing even the tiniest patterns hidden in massive amounts of data to make predictions

**Weaknesses:**

Her confidence decreases if she doesn't have enough data.

Astra



## Training Bot

**Nickname:** Coach T.

**Strengths**

Can learn to do almost anything from solving math problems to baking a cake.

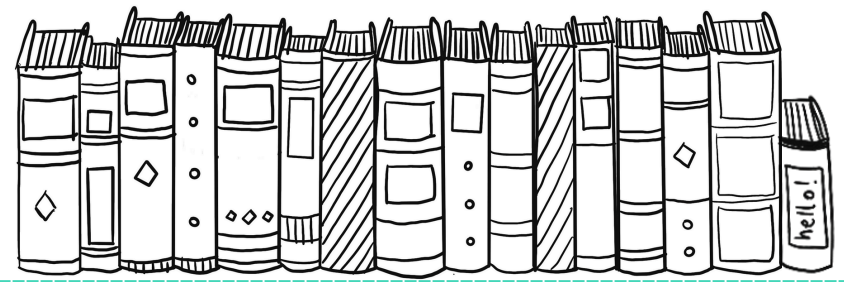
**Weaknesses:**

Won't know what to do without clear examples to learn from.

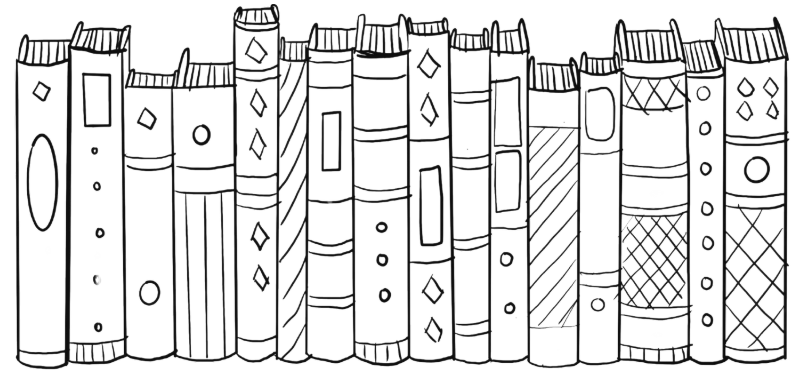
Coach T



# Meet the robots



cut this  
row of  
books



Let's have some fun! Cut out this rectangle, then slide the paper with the row of books from above into the slit so it fits snugly between the two slits. Voila—you have your own AI library!



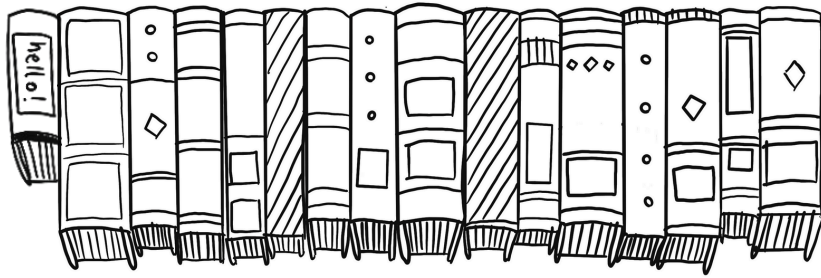
cut these slits



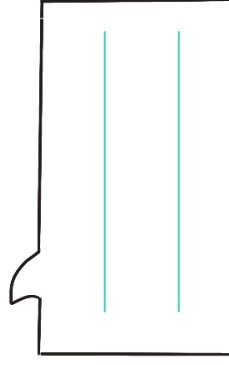
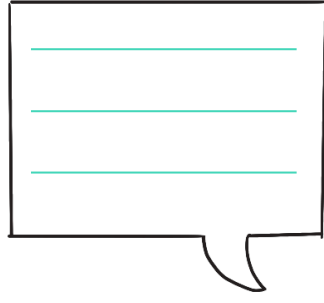
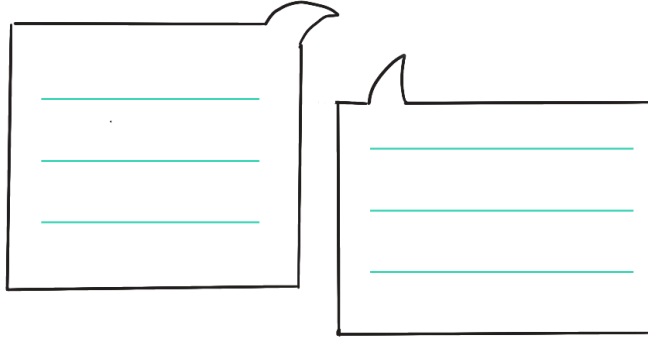
AI is a special computer program made by people that does things humans would usually do.

One way to think of AI is like a robot librarian who has read bajillions of books, and who can help you answer questions from a giant "library" of information.





What do you want to ask about AI?



1

2

3

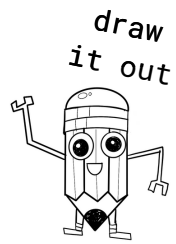
4



6

5





# How does AI work?

AI learns by finding patterns! Imagine it's reading books about unicorns and robots, spotting details like shapes and features.

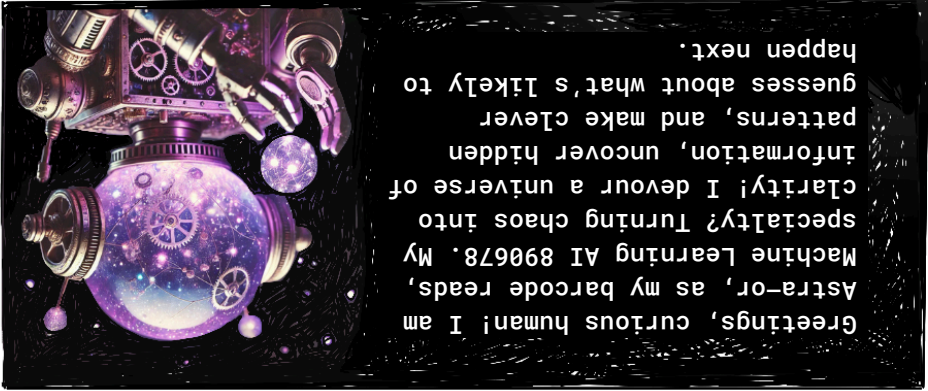


## Make your own mini zine to share your AI idea!

1. Cut out this half page from the zine.
2. Fold the half-letter page in half lengthwise, then widthwise, and again into quarters.
3. Cut a slit along the center fold (where the scissors are).
4. Push edges together to form a booklet.
5. Fold into a zine and illustrate your idea.

Then, it combines those patterns to answer questions about unicorns, robots or even something new like a unicorn robot!

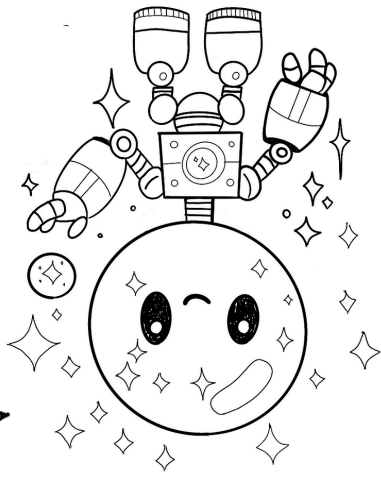




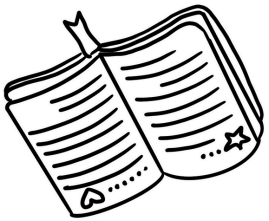
Greetings, curious human! I am Astra-or, as my barcode reads, Machine Learning AI 890678. My specialty? Turning chaos into clarity! I devour a universe of information, uncover hidden patterns, and make clever guesses about what's likely to happen next.

## hi let's play a game

1. Set Up: Cut out the cards on the next page. Mix the word cards together and give each player 3 cards.
2. Pick a Category: Draw a category card, like "Things you don't want to find in your backpack."
3. Match a Card: Each player picks a word card from their hand that best matches the category.
4. Play Rounds: Draw new category cards and keep matching until all cards are used.



In this game, you have to match a word card to a category. When you match a word card to a category, you're recognizing patterns between the words you have (data) and the category (pattern). AI systems find patterns in data and use those to make decisions.



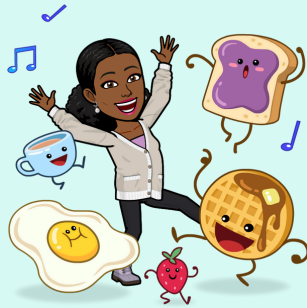
## What problem would you solve with AI?

Think about a challenge you or your friends have. Write down or draw one way AI could help you with that problem, just like Kynneddy did.

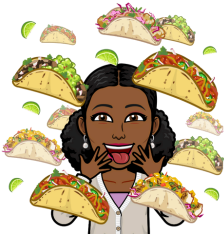
# Eating HEALTHY w/ AI

- A bitmoji story -

What if AI helped us pick healthier food at lunch? Let's see what happens with and without the NutritionAI app!



## Eating lunch *without* NutritionAI



It's Taco Tuesday!!  
Kynneddy fills her plate  
- it's a special day!



For dessert, she picks  
a big slice of pie! Its  
yummy, but might not  
be the best choice.

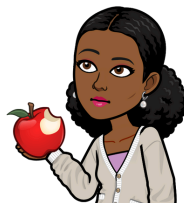


Her tummy hurts after  
lunch. Kynneddy wishes  
she made healthier  
choices :(

## Eating lunch *WITH* NutritionAI



Kynneddy scans her  
lunch with NutritionAI.  
It warns her that some  
foods aren't healthy



The AI suggests better  
alternatives based on  
her dining hall and  
preferences.



Thanks to the AI's  
advice, she picks a  
nutritious meal and  
feels energized!



Worms	Goldfish	Skunk
Sweaty Sock	Cereal	Porcupine
Chewed Gum	French Fries	Honey Badger
A Spider	Sardines	Vulture
Ants	Broccoli	Sand
Old Banana	Pineapple	Monkey
Glitter	Jalapeños	Piranha
Toothbrush	Marshmallows	Scorpion

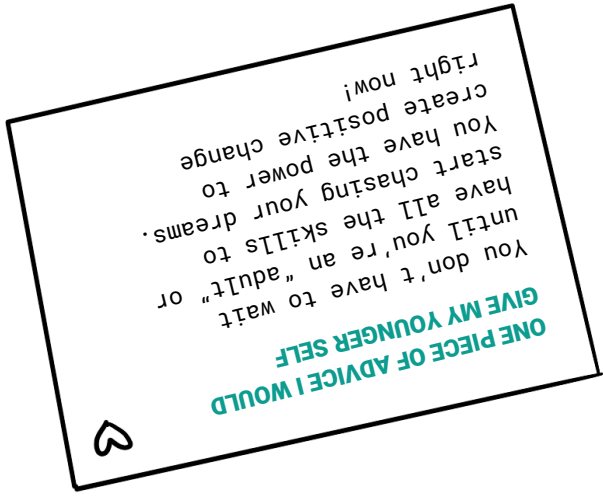
Things you  
don't want to  
find in your  
backpack

Weirdest  
pizza  
toppings

Animals you  
definitely don't  
want as a pet



# Meet Kynneddy



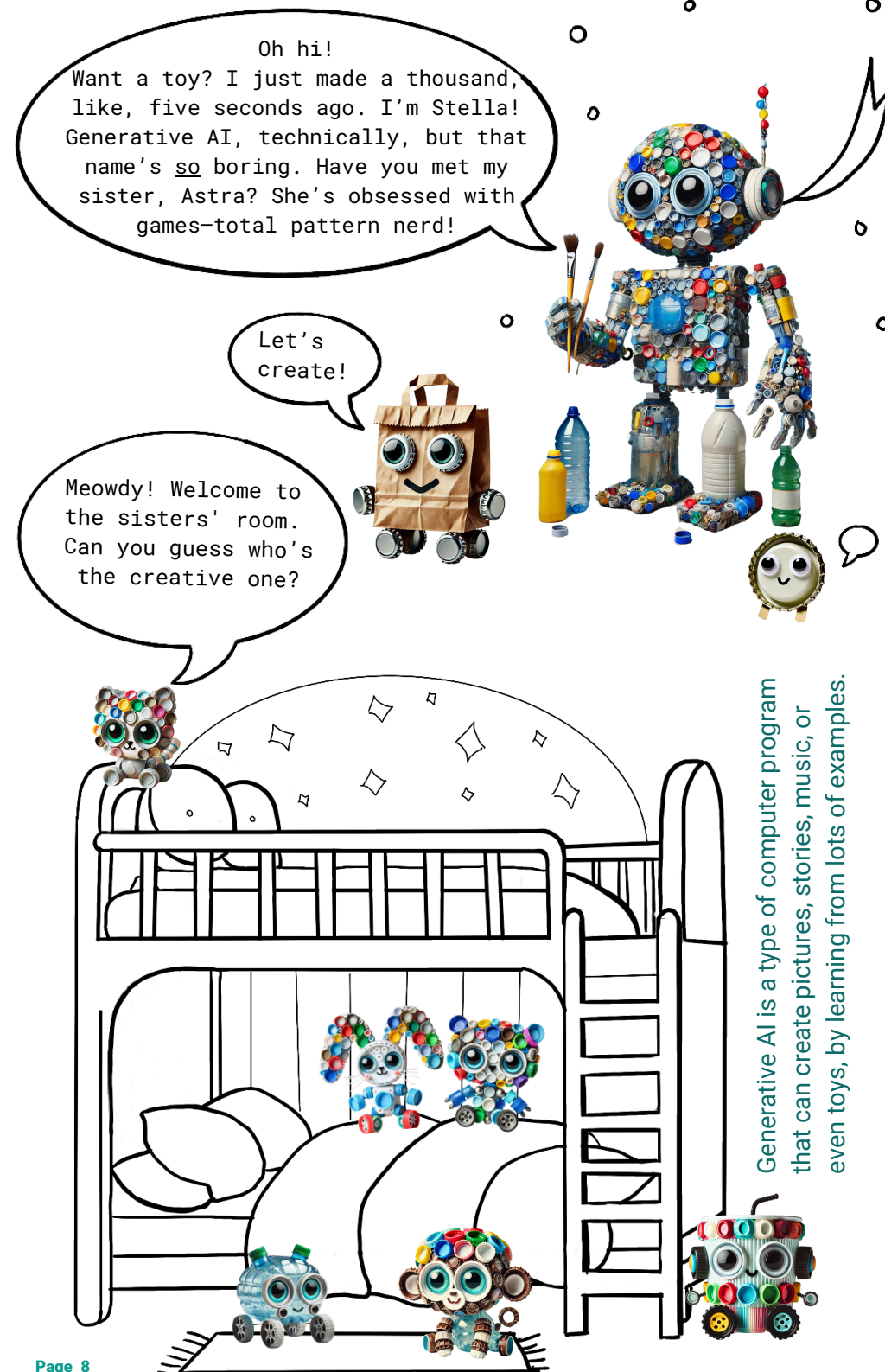
# How can we use AI to solve problems?



Researchers at Columbia University's LEAP center are using AI to improve climate predictions, helping communities better plan and adapt to climate impacts.



Researchers from Yamagata University in Japan, in collaboration with IBM Research, used AI to discover three hundred new geoglyphs in Peru's Nazca Desert, doubling the known ancient line drawings by analyzing aerial photos.





Want to try it out? Let's make a new toy like Generative AI

1 Let's study the "data set." Look at the three toys. Notice their shapes, colors, and details.

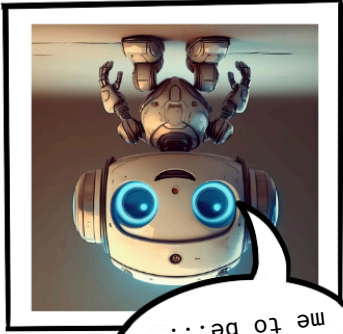


2 Time to mix parts of each toy—maybe bunny ears on a robot or a bottle body with buttons! Cut, collage, or draw your own unique toy!

give your  
toy a name

# Train your own AI

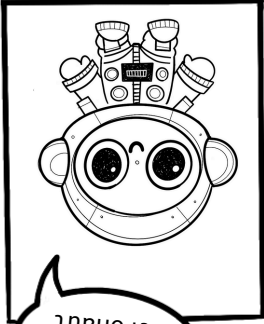
You can train  
me to be...



a baby dinosaur



a curious  
astronaut



You can train AI to do lots of things by teaching it, almost like training a pet! AI looks at examples—like pictures of astronauts—then finds patterns and uses what it learned to answer questions.

## Now it's your turn to train AI!

Imagine kindergartners are asking lots of questions about astronauts. What information should the AI learn to help answer their questions?

add 3 words to  
train me in here

