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AI IS NOT MAGIC

AI is a machine that learns patterns from data

Before AI, we told machines exactly what to do.



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Hands-On: Stone-Paper-Scissors Image Model



guvi.in/challenge/ai-rag

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Build the Model in 4 Simple Steps

Step 02 · Computer Vision

1. Data Collection

Capture webcam samples for Background, Stone, Paper and Scissor.

2. Model Training

Click *Train Model* to learn the gestures in your browser.

3. Ready to Test

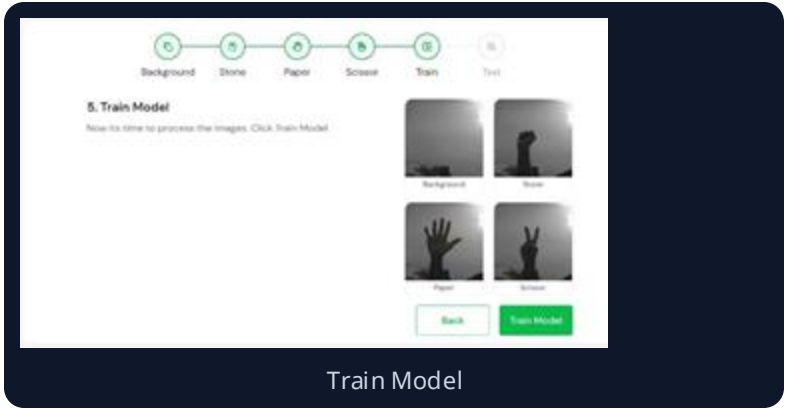
Show live gestures and watch the real-time scores.

4. Precision Evaluation

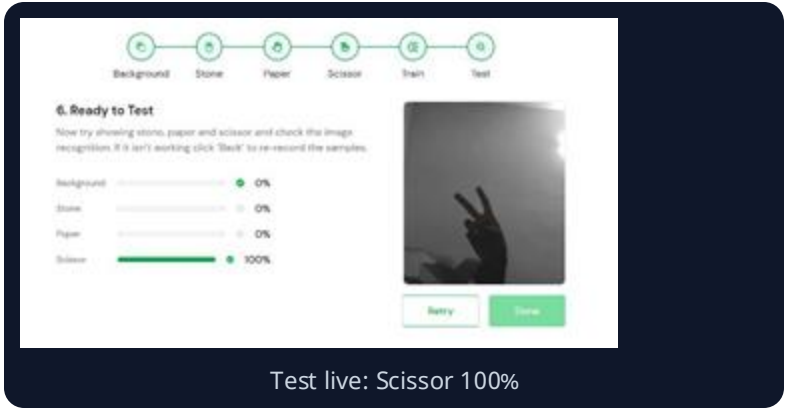
Check confidence (e.g. Scissor: 100%) and export.

Train & Test Your Model

Step 03 · Transfer Learning



Train Model



Test live: Scissor 100%

Good data: 30–50 clear frames per class

Target: over 90% confidence

GUVI, a proven learning ecosystem



Skilling using English & vernacular languages

Incubated by IIT-M and IIM-A

Acquired by HCL Group

Partnering with 600+ Corporates

3M+ learners

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Transforming Education through IIT Partnerships

IITM PRAVARTAK
CATALYSING INNOVATION

IIT KANPUR
Indian Institute of Technology, Kanpur

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
प्रियो यो नः प्रचोदयात्

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

“SAWiT Learnathon” Showcases GUVI’s Expertise In Delivering Large-Scale AI skilling Initiatives for Women

- **GUVI, SAWiT**, and **UP Government** Join Forces to Empower Women in Tech.
- Over **3.5 Lakh Women** Registered, Showcasing a Strong AI Upskilling Drive.
- Earned a **Guinness World Record** for ‘Most Users Taking an AI Lesson in 24 Hours’.



“AI for India” Initiatives Demonstrated GUVI’s Ability to Launch AI Skilling Programs, at Scale

- The Govt. of India Partnered with GUVI to launch **AI for India** to Empower Individuals on AI
- **Over 9 lakh** Learners Enrolled Under Both programs
- The Execution of this Initiative at such a Scale Created an Entry in **Guinness World Record**



HCL GUVI is proud to be a part of the "AI Pragya" initiative by the UP Government, launched by **Hon'ble CM Shri Yogi Adityanath Ji**.





AI Pragya to impart digital skills to 10 lakh citizens in UP

TIMES NEWS NETWORK

Lucknow: Under the AI Pragya scheme, 10 lakh cirizens will be trained in areas like artificial intelligence, machine learning, data analytics and cybersecurity. Participants will receive certification, and the initiative aims to support employment and startup culture in the state. The programme will be implemented in collaboration with departments like education, health, agri-

Electronics, Anurag Yadav said the programme has been designed to equip people from different strata with digital skills so that they can thrive in emerging technology sectors. "It will provide certification

ERA OF AI

in key domains like AI, machine learning, data analytics, and cybersecurity—paving the way for increased employment opportunities and a thri-

avenues for youth but also enhance technological efficiency in core sectors such as govt services, farming, education, and healthcare."

Managing director, UPDESCO, Neha Jain, said the Center for e-Governance (CEG) Society under the Department of IT and Electronics will serve as the nodal agency. At the same time, district magistrates will oversee implementation at the district level. "Govt has collaborated with

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Our Recent Awards


Best GenAI Training Partner



Best Partner-
Technology Training



Best Partner- New
Hire Training

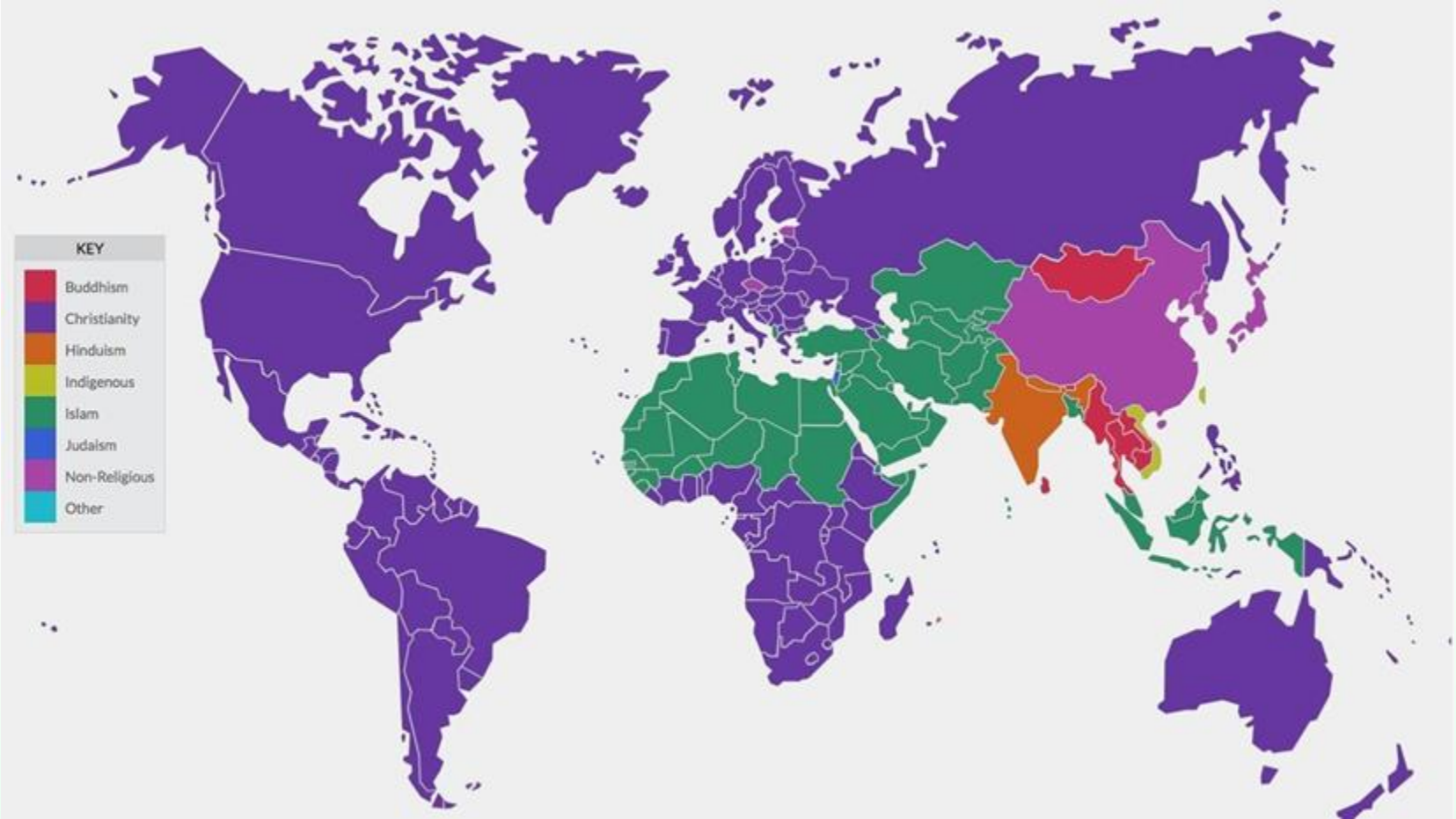
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AI BUBBLE VS DOT COM BUBBLE

THE NASDAQ CHART THAT FEELS LIKE DÉJÀ VU



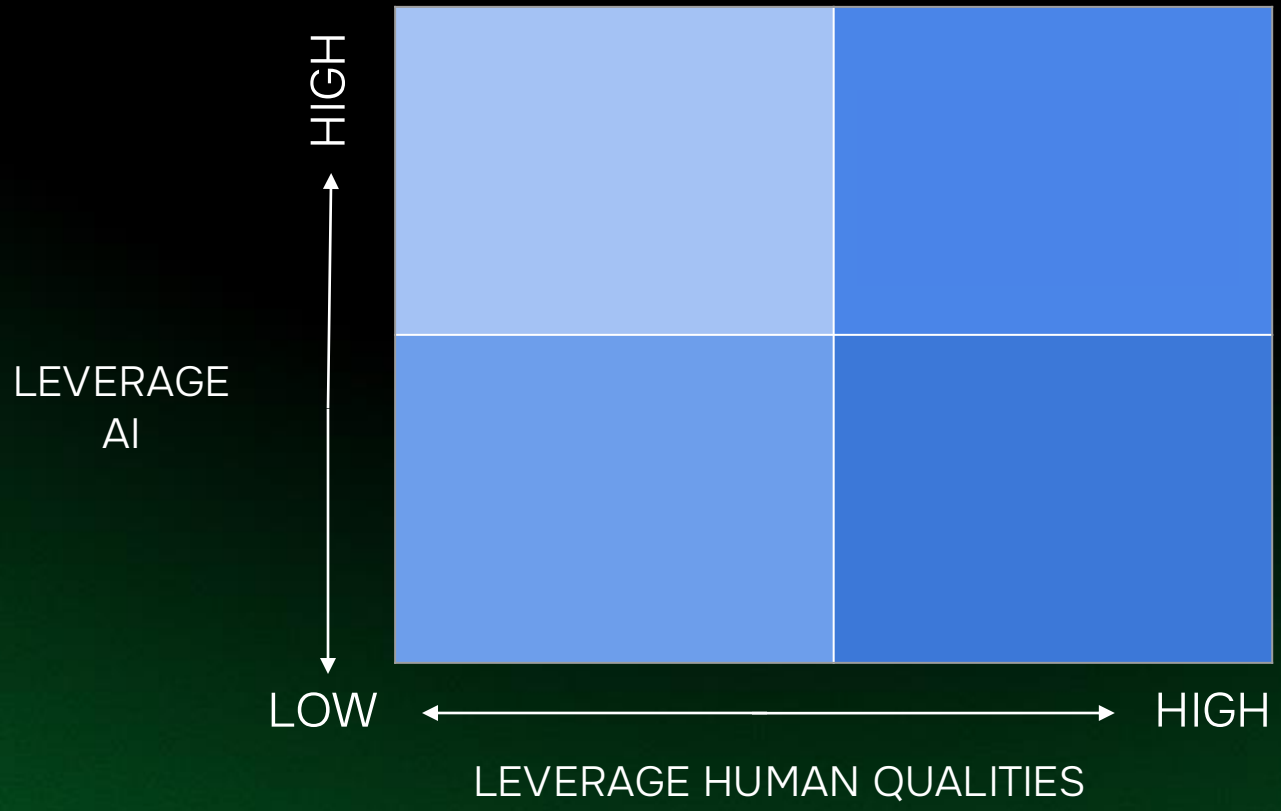

KEY
Buddhism
Christianity
Hinduism
Indigenous
Islam
Judaism
Non-Religious
Other



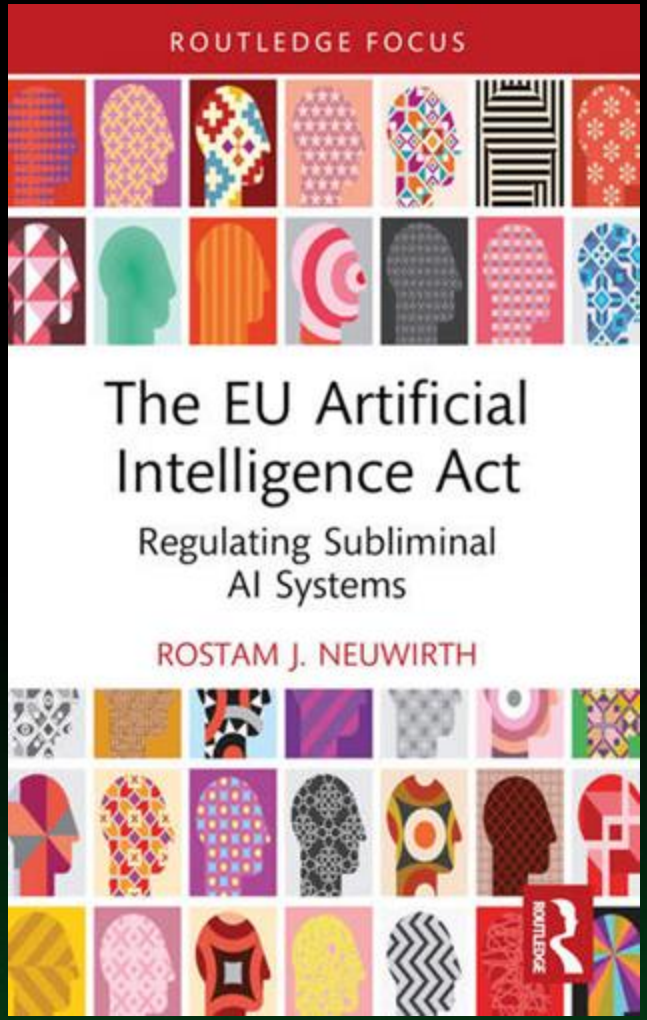
10 million bubble tea orders in nine hours! It was a stunt by Alibaba for Chinese New Year's, free for anyone who ordered a boba through Qwen Agent.

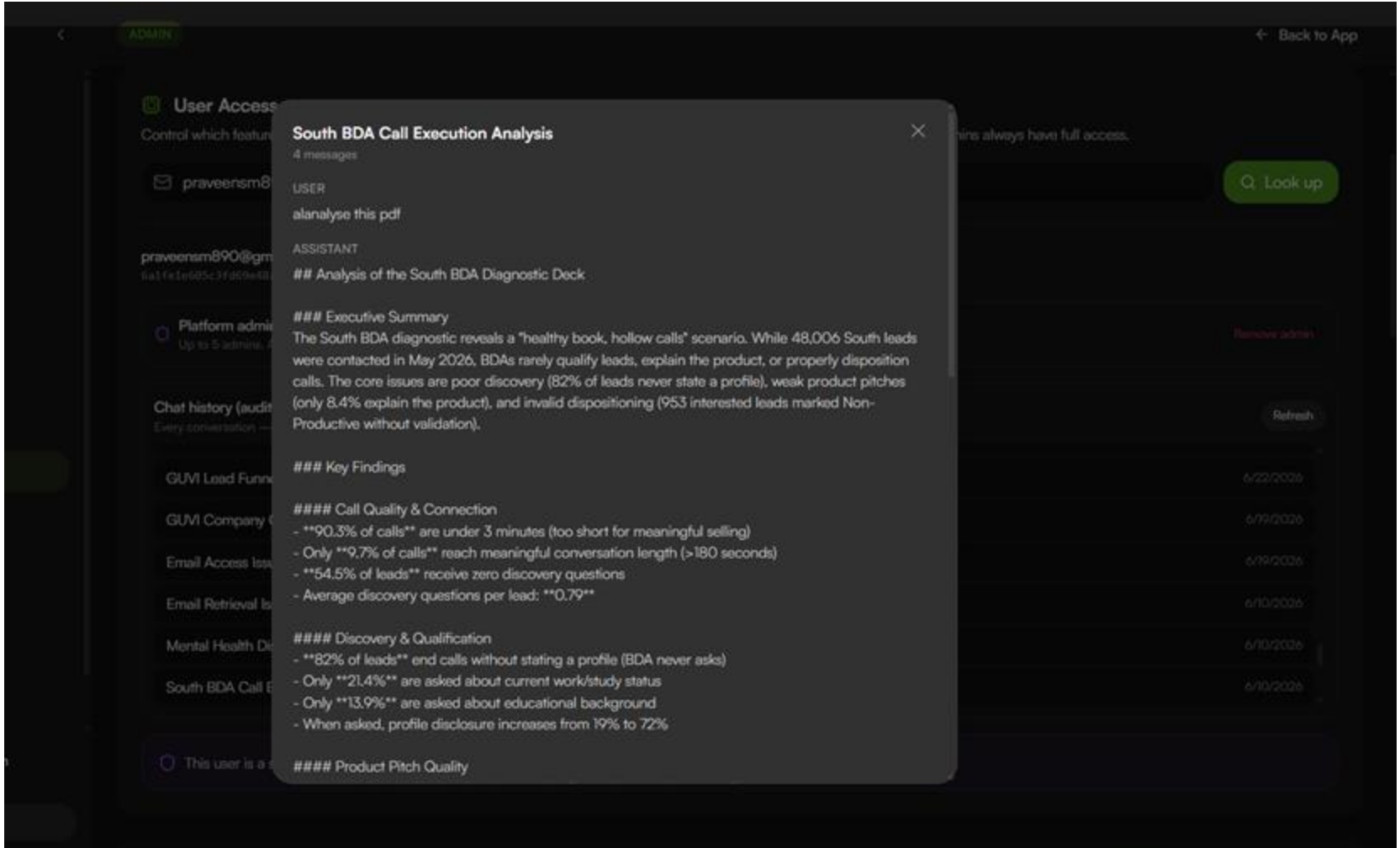
Qwen AI: 10 million orders in 9 hours. What Europe can learn from Alibaba's AI ecosystem

The AI Matrix



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ADMIN
Back to App
User Access
Look up
Chat history (audit
Refresh
South BDA Call Execution Analysis
4 messages
USER
alanalyse this pdf
ASSISTANT
Analysis of the South BDA Diagnostic Deck
Executive Summary
The South BDA diagnostic reveals a "healthy book, hollow calls" scenario. While 48,006 South leads were contacted in May 2026, BDAs rarely qualify leads, explain the product, or properly disposition calls. The core issues are poor discovery (82% of leads never state a profile), weak product pitches (only 8.4% explain the product), and invalid dispositioning (953 interested leads marked Non-Productive without validation).
Key Findings
Call Quality & Connection
- **90.3% of calls** are under 3 minutes (too short for meaningful selling)
- Only **9.7% of calls** reach meaningful conversation length (>180 seconds)
- **54.5% of leads** receive zero discovery questions
- Average discovery questions per lead: **0.79**
Discovery & Qualification
- **82% of leads** end calls without stating a profile (BDA never asks)
- Only **21.4%** are asked about current work/study status
- Only **13.9%** are asked about educational background
- When asked, profile disclosure increases from 19% to 72%
Product Pitch Quality

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_____ left the station

He was hungry so he ordered a _____

- Before AI, machines were built to follow our specific instructions.
- They did things based on conditions we programmed into them.
- They were rules-based, but AI is different.



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- Instead of giving machines instructions on what to do and how to do it.
- we train them to think and do things on their own,
- like raising a child.



- This is why people call AI a black box.
- It turns your input into an output based on similar things you've shown it in the past.
- But you don't know what's happening in the box exactly.



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- AI basically combines your input in the moment ,with the data it's been trained on to generate an output.
- There's three types of AI boxes you should know about,
- You can differentiate them based on their output.



Predictive AI

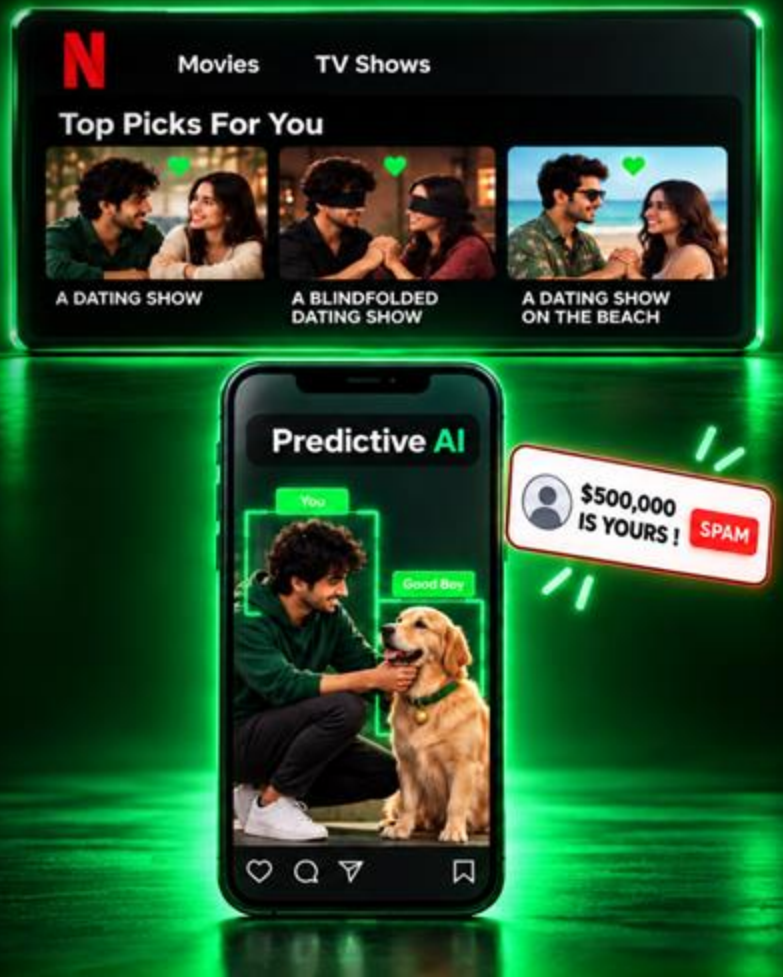


Generative AI



Agentic AI

- labels things based on prior data
- Like marking an email as spam, identifying someone in a picture or recommending what you should watch.



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Generative AI creates new content like text, images, and videos.



Chatgpt



Images



Videos

- Agentic AI outputs actions based on a given task.
- Like self-driving cars, they take a destination as an input, then they plan a trip, drive the car while stopping at traffic lights, following speed limits, and not running over pedestrians.



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Another example is AI agents like cloud computer use.

If you give them a task, they can access your computer, apps, or accounts to execute actions on your behalf.

These are the types of AI



- But you can also define AI by its level of intelligence
- Neuro-AI is built for specific tasks, which applies to all AI systems we have today.



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- Artificial General Intelligence, or AGI, is theoretical for now, but would match human intelligence across all tasks and Scenarios.
- But nobody agrees on a formal definition of what AGI actually is.



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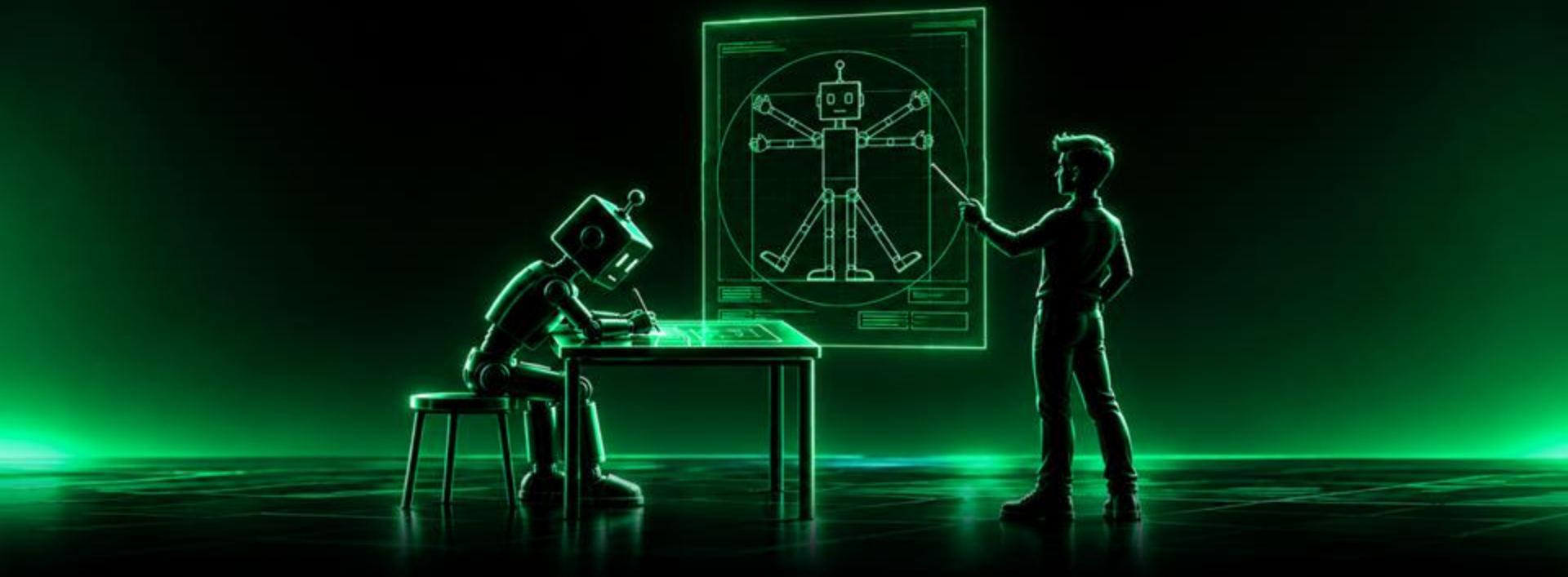
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And finally, Artificial Superintelligence is also theoretical, but would surpass human intelligence by far.



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How AI is Created ?



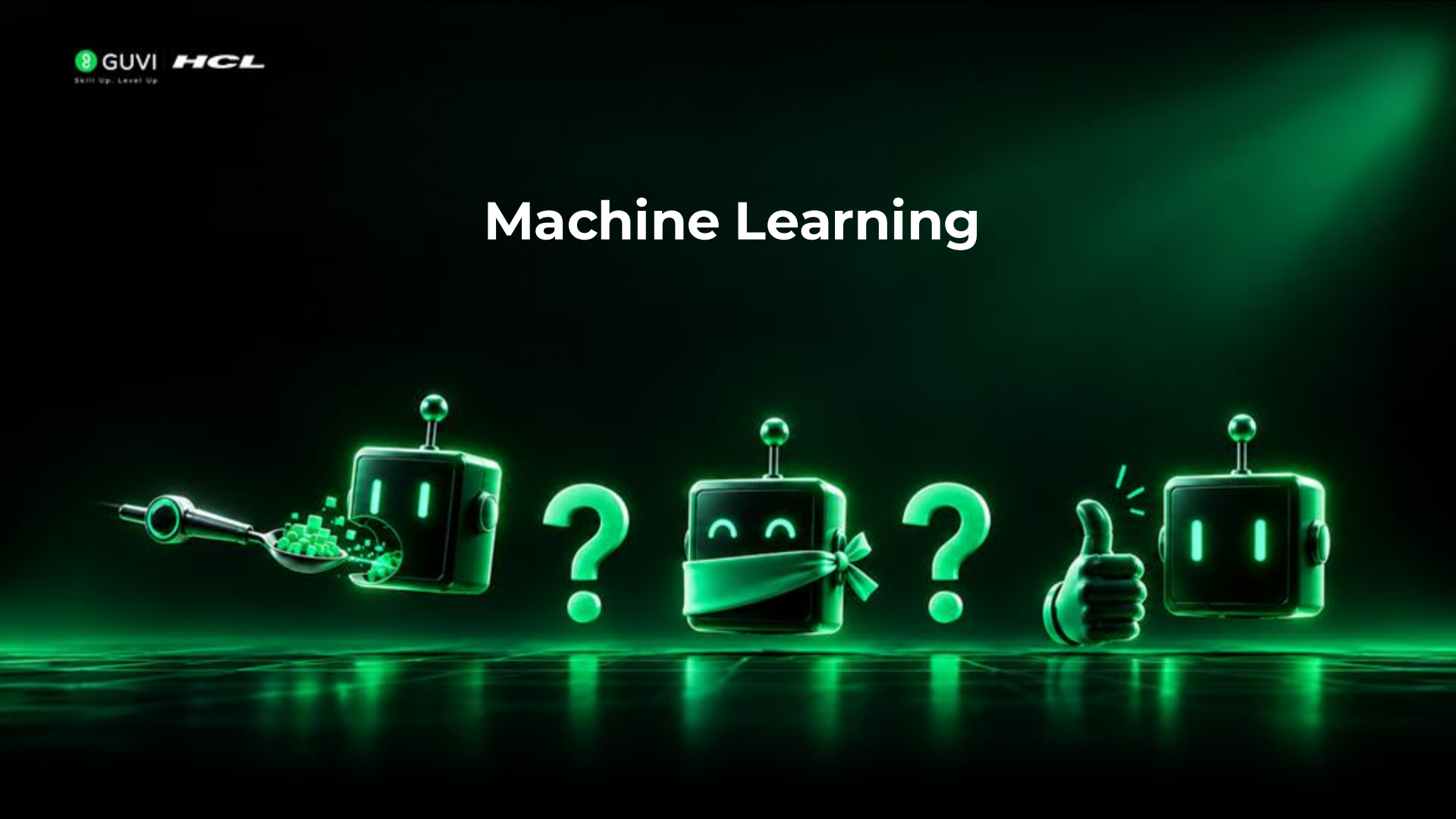


Imagine you adopted a pet robot, and you wanted to teach him how to think and do things on his own.

This is called machine learning, and there's three ways you could do this.

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Machine Learning



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You could take your robot around the world and point at every object to teach him what it is, over and over again.



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Supervised Learning

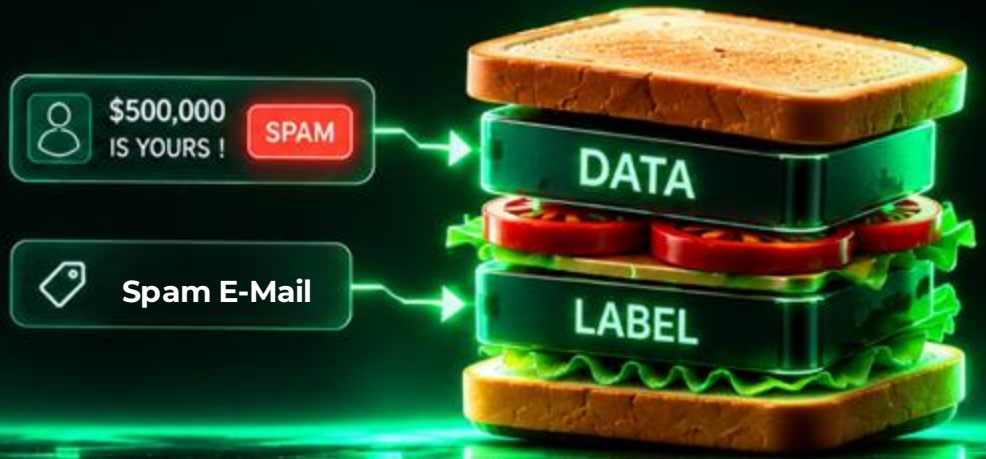
You're spoon-feeding him information until he recognizes what each thing is. This is supervised learning.



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Supervised Learning

And you're feeding a machine a sandwich of labeled data, like reviews, emails, and even x-rays.



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Unsupervised Learning

Letting him learn on his own.

Imagine you were leaving the house and you told your robot to sort the dishes.

It would start grouping things based on similarities in shape, size, and color.

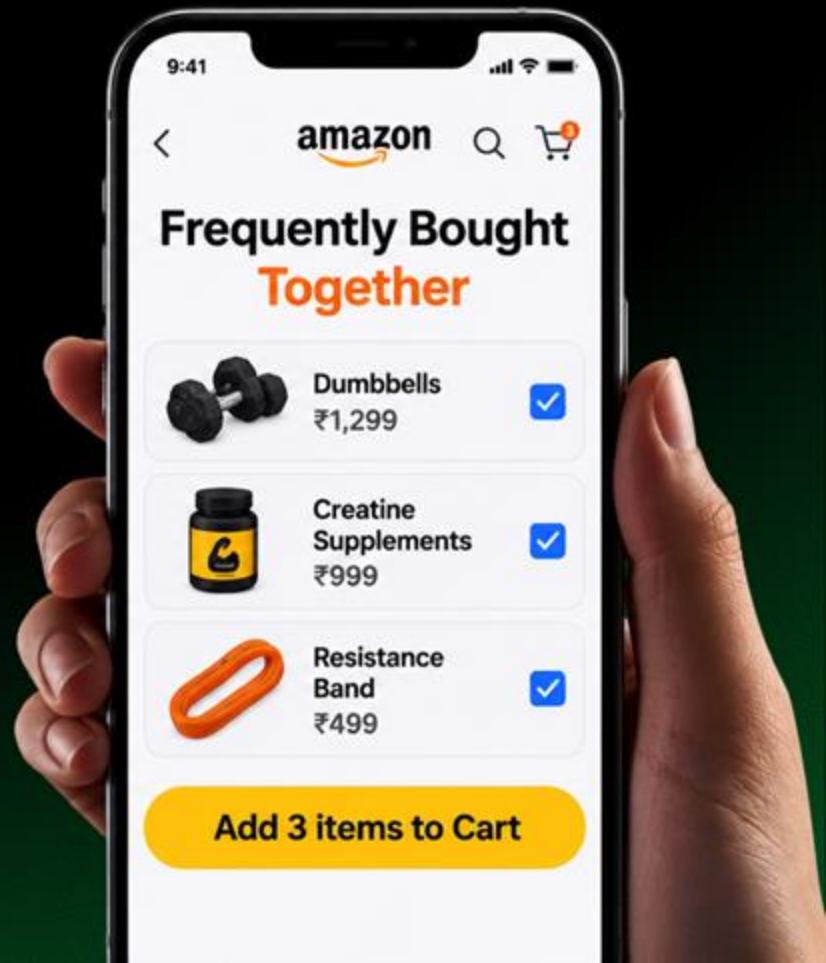




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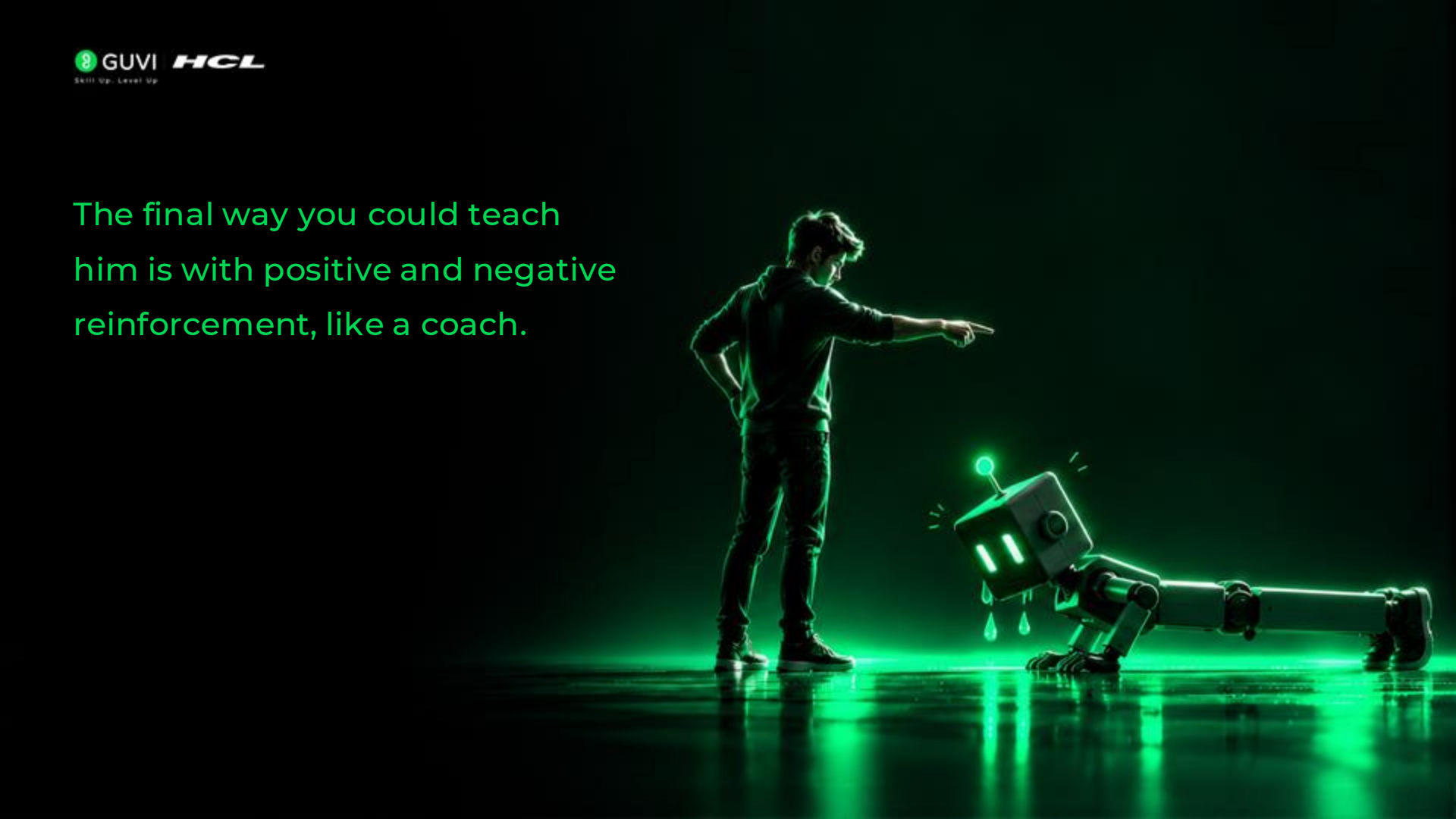
This is unsupervised learning,

and it powers systems that group similar items when you're shopping, browsing pictures, or getting song recommendations.



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The final way you could teach him is with positive and negative reinforcement, like a coach.



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Imagine you asked your robot to make you a smoothie



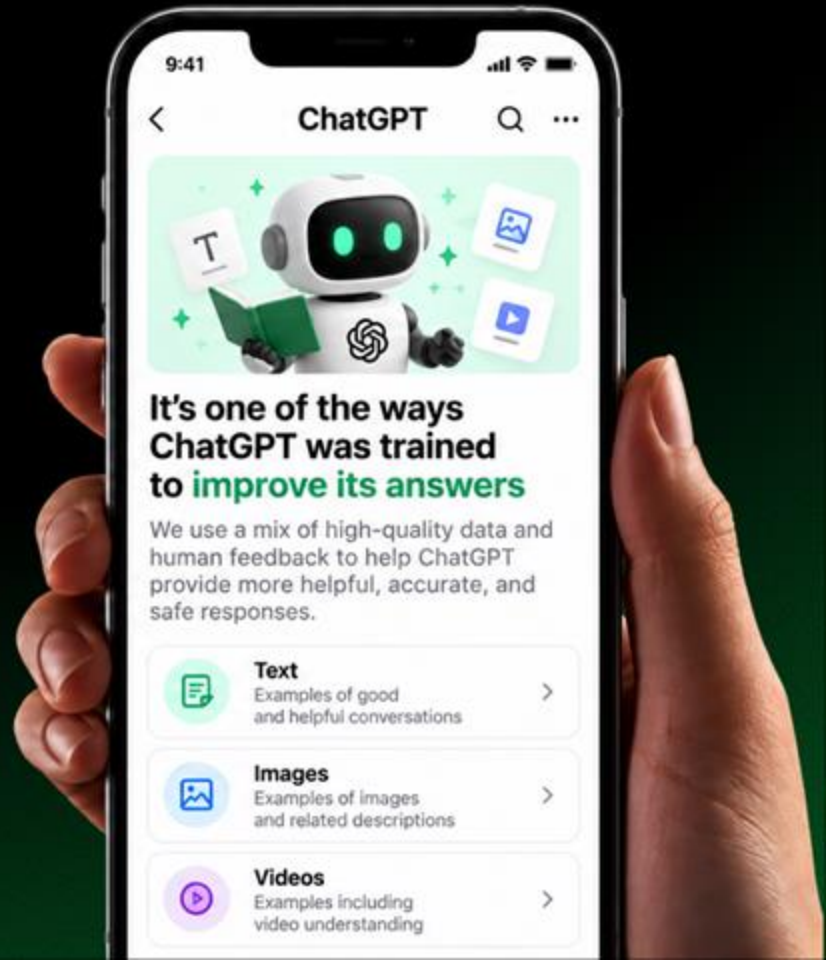
- It has no idea how to do it at first, so it starts experimenting with random recipes
- After you taste each smoothie, you give it a thumbs up or a thumbs down.



- Over time, the robot learns to make smoothies just the way you like them.
- This is reinforcement learning

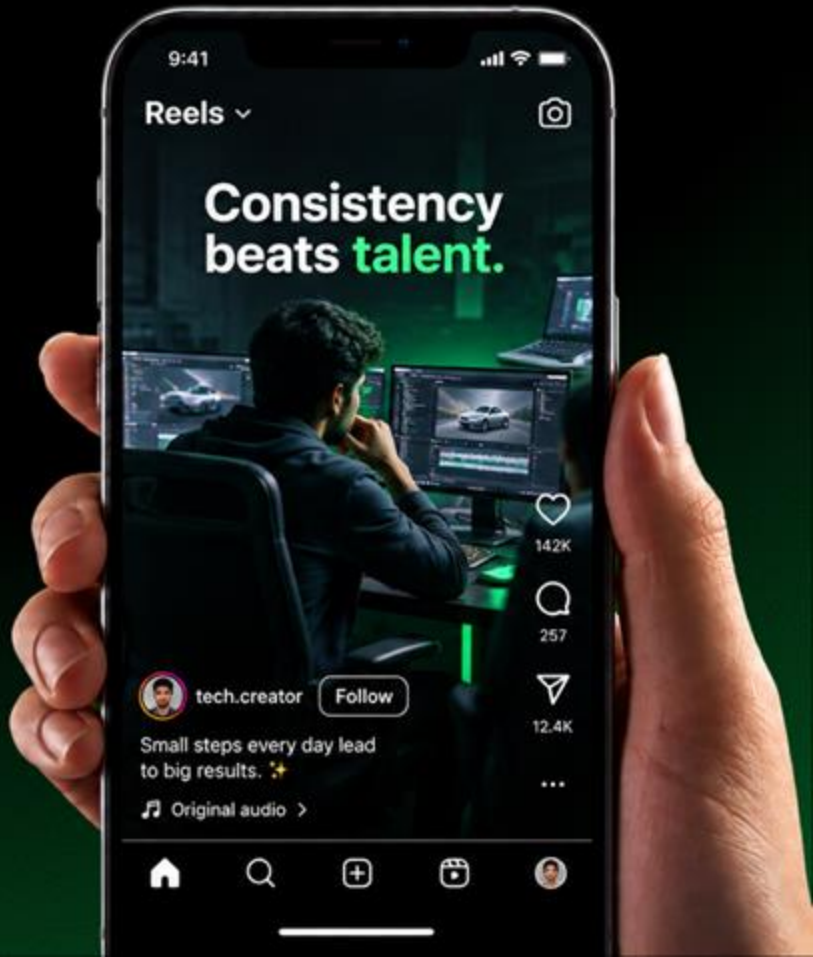


It's one of the ways ChatGPT was trained to improve its answers



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And the reason why your algorithm knows you too well.



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Creating Intelligent Machines Isn'T Just About The Training Method, It'S Also About The Quality Of Data That You Use.





- If your robot learns from low-quality information,
- he'll only give you low-quality results.
- Garbage in, garbage out.





High-quality data is more valuable than ever, but we might run out of it soon.



One research group predicts that we'll run out of publicly available data between 2026 and 2032 at the current pace of AI development.

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This Is Why AI Companies Are Signing Expensive Licensing Deals To Find New Training Data.



- The other solution being explored is using synthetic data,
- generated by AI to create new training data.



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Training an AI system
is like raising a child



- The parents play a big role in deciding the values they teach them
- what they can watch on TV, and where they live, and these factors shape a child's worldview.



- Imagine a child who grew up in Antarctica, and the only animal they ever saw was a penguin.
- They would think that penguins are the only animals in the world,
- but they have an incomplete worldview because they haven't seen all the other animals that exist.









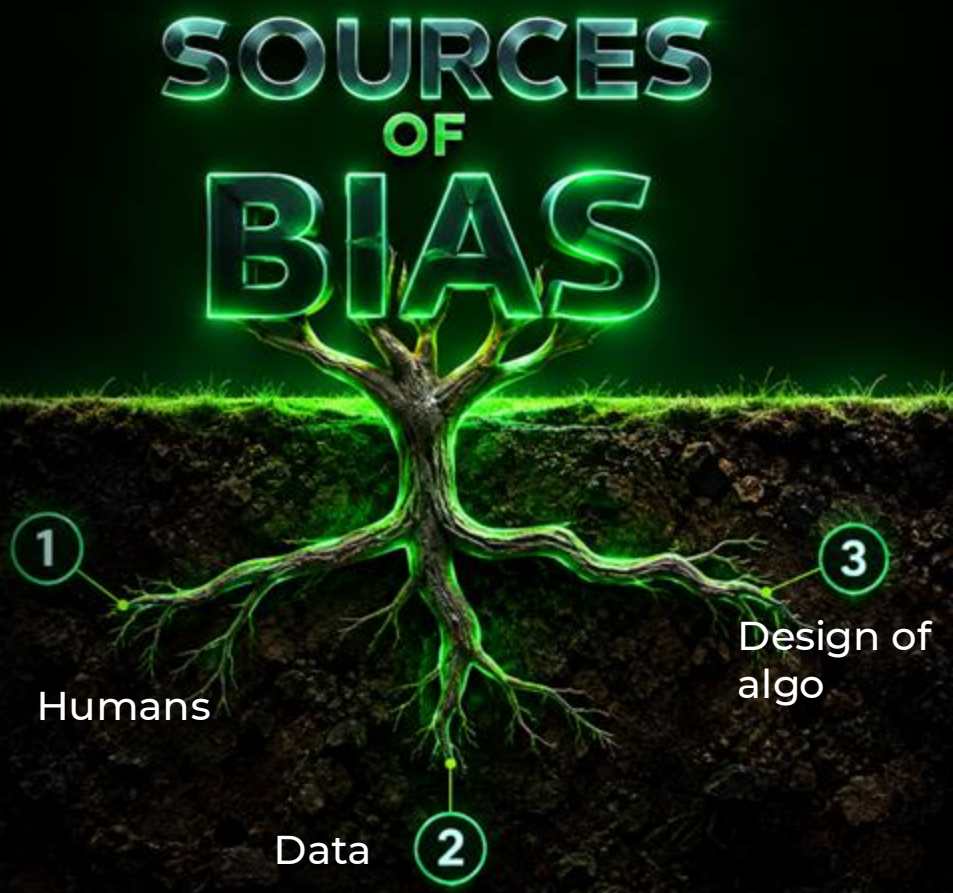


but also create unfavorable outcomes for some people.



AI has the same problem, which can limit its abilities,

- And this bias can come from different sources.
- First, the beliefs and values of people can influence how AI systems are designed and trained.





If the child's father was an penguin enthusiast, he might constantly talk about how penguins are the best animals on earth.



The child would adopt the same belief because it's all they've been exposed to.

- And this is the same reason why some chatbots will respond differently ,
- if you ask them controversial questions.



Bias can also exist within the training data

if it has any imbalances that ignore the nuances of the world



If the parents only give their child books about penguins,

There is no way for them to learn about new and different species.





This is why language models might give you lower quality responses in languages other than English.

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The child who has only seen penguins would think that animals are only creatures that are black, white, and have flippers.





And this is why image generators associate certain jobs with specific genders and races.

Unfortunately, there is no reliable solution to eliminate bias from AI.





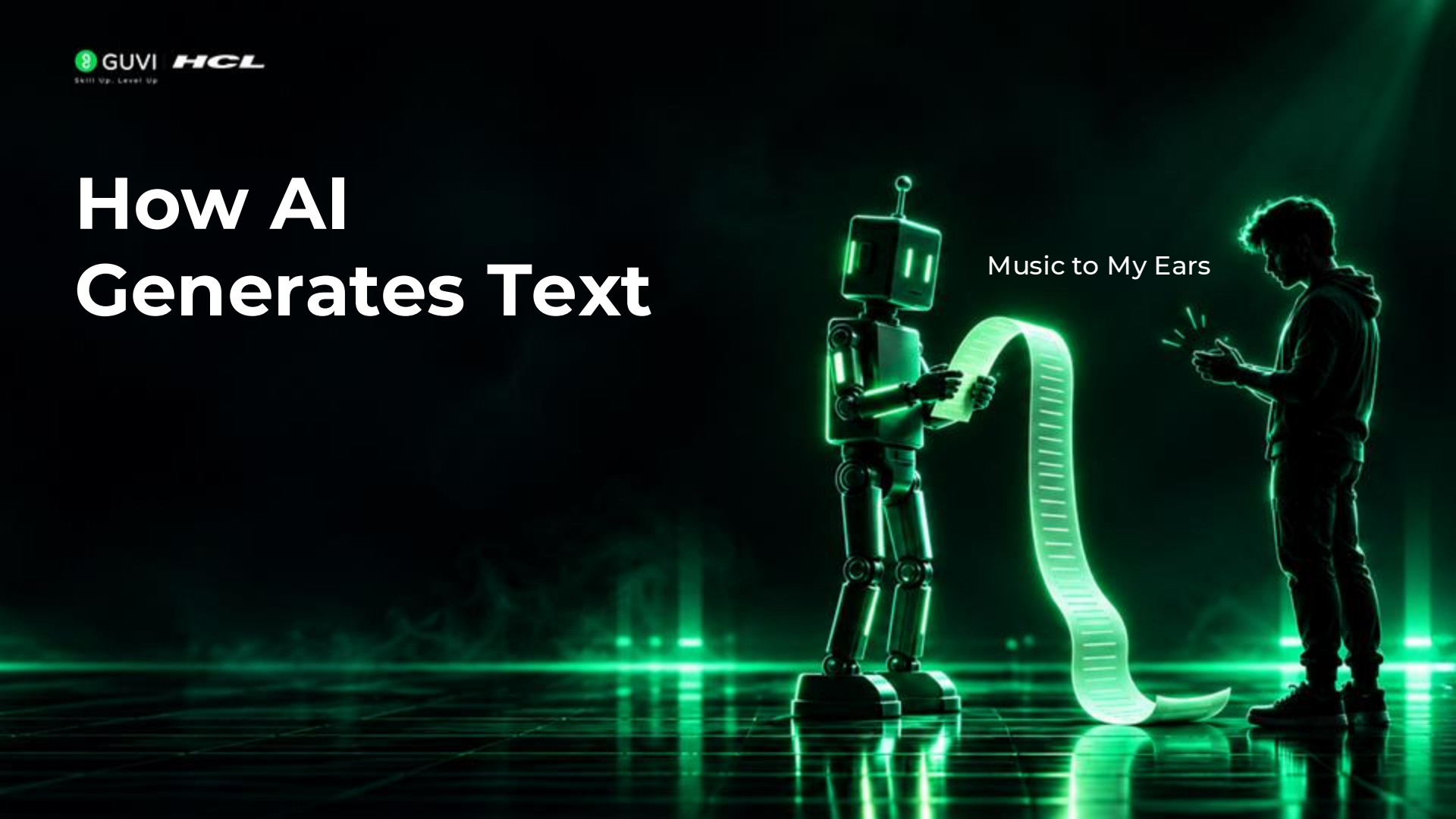
After all, bias is part of being human and if we're trying to replicate the way humans think and act, bias is inevitable.



AI is only a mirror image of us after all.

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How AI Generates Text



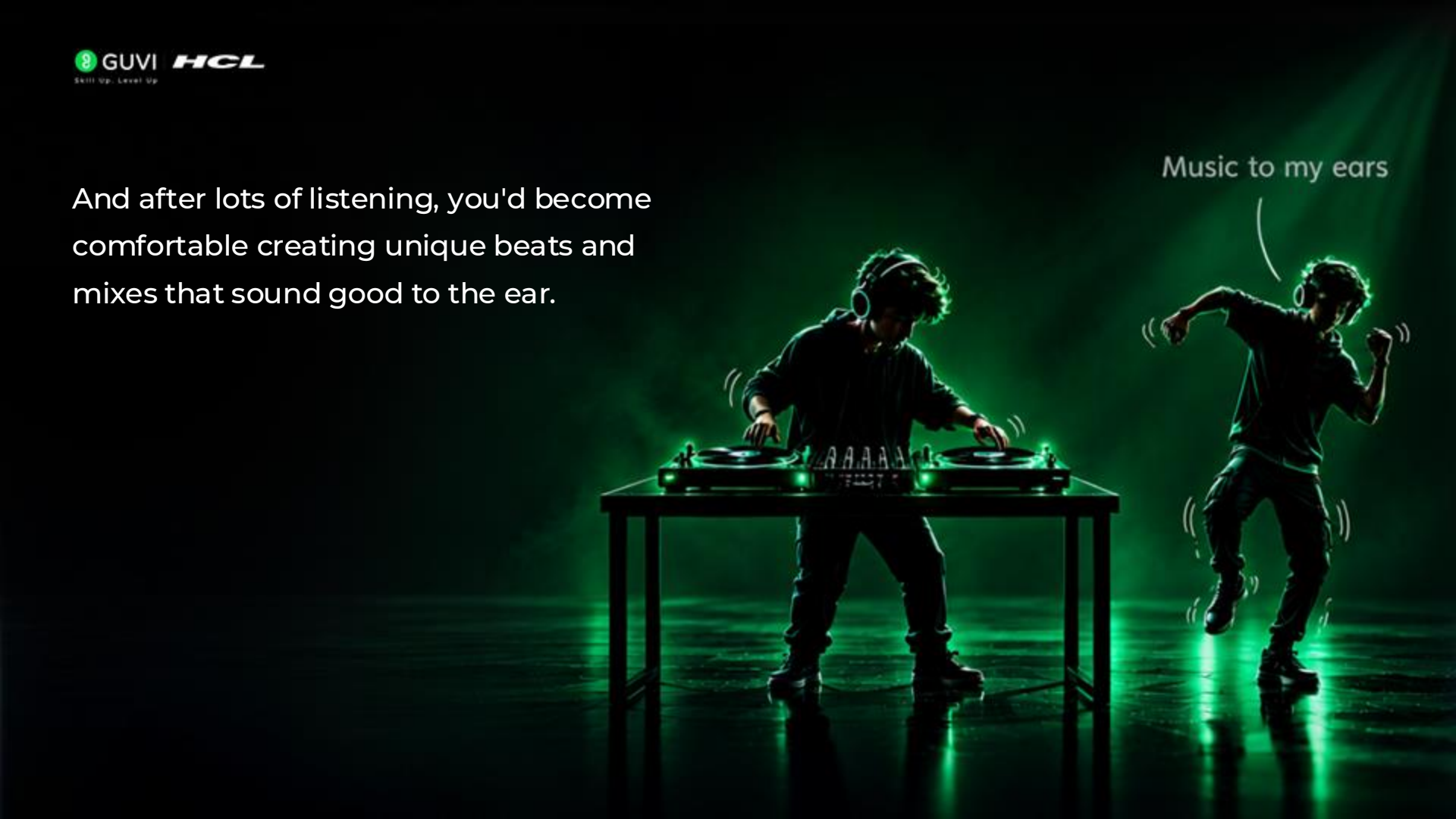


Imagine you wanted to become a DJ.

You would start by listening to as many songs as possible.

You would break down each song to analyze the sequence of beats and instruments that were used.

And after lots of listening, you'd become comfortable creating unique beats and mixes that sound good to the ear.





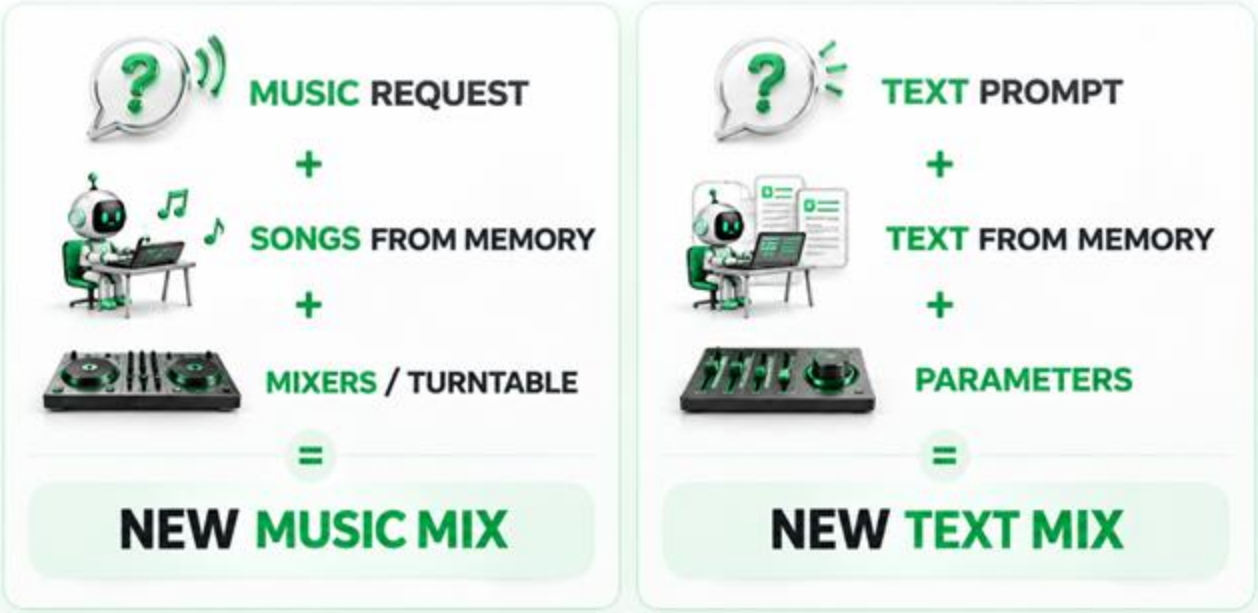


- Large language models are built in a similar way.
- They're trained on millions of pages of text.

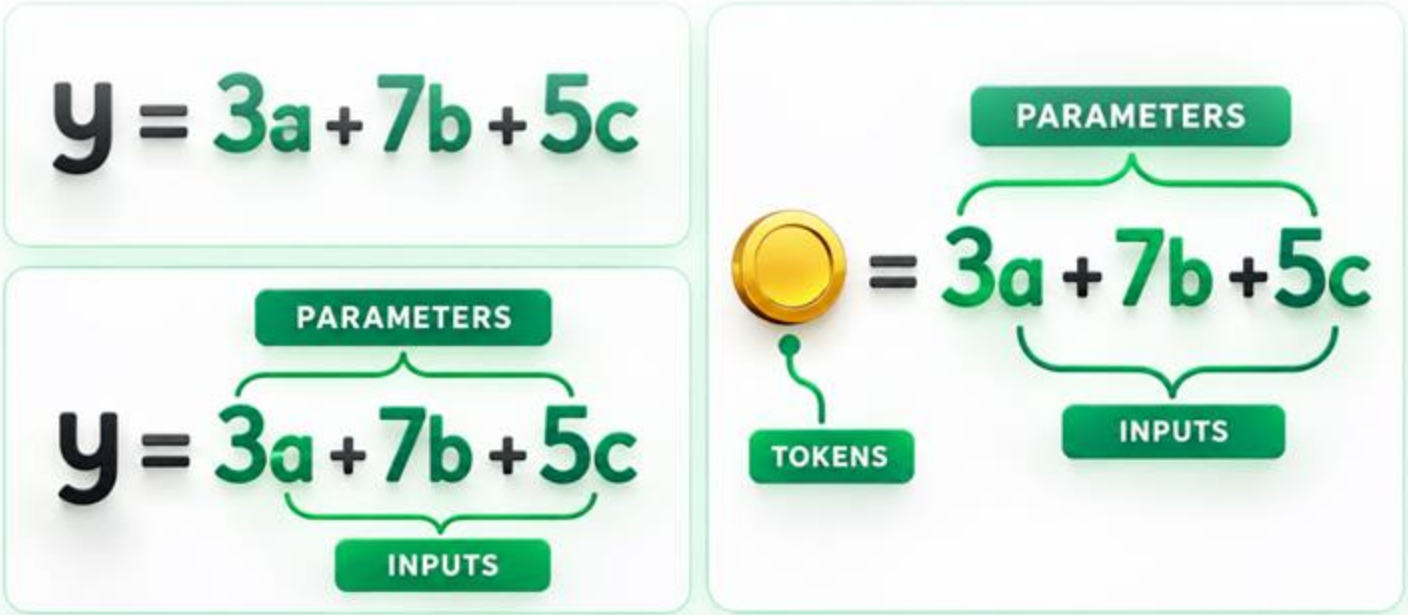
- Each piece of text is broken down into tokens, which are numerical representations of words.



With billions of examples, machines can remember the sequences of tokens to create language that sounds good to the ear.



Asking AI to generate text for you is like requesting a song from a DJ.



Text generation is like a math formula.It takes your inputs, multiplies them by specific parameters to give you a token of text.



AI generates this new mix of text by predicting the sequence of tokens one at a time based on all previous tokens.

And each token is the result of hundreds of billions of calculations.

Like a DJ anxiously trying to keep the crowd going after every beat switch.

But sometimes things go wrong.



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Every token is a best guess,
these guesses can be wrong when
asking for factual information.

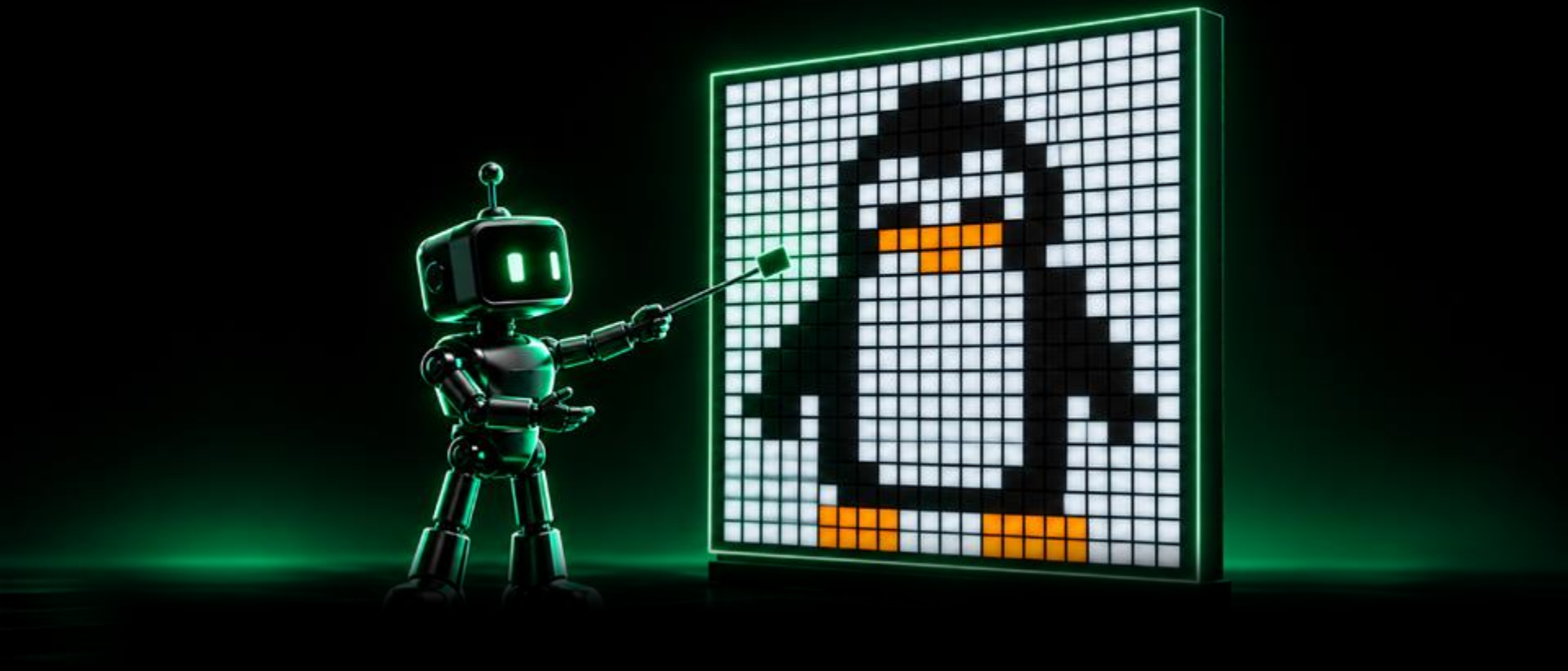
These are called hallucinations.

Remember that language models are text generators,
not truth generators.



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How AI generated images ?



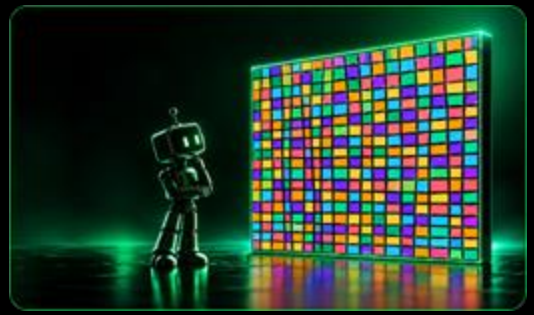
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Imagine you are a sculptor and someone asks you to make a statue. You would get a stone block and start chiseling away until you get your masterpiece.



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AI generates images in a similar way.



It starts with an image full of random pixels



gradually adjusts them



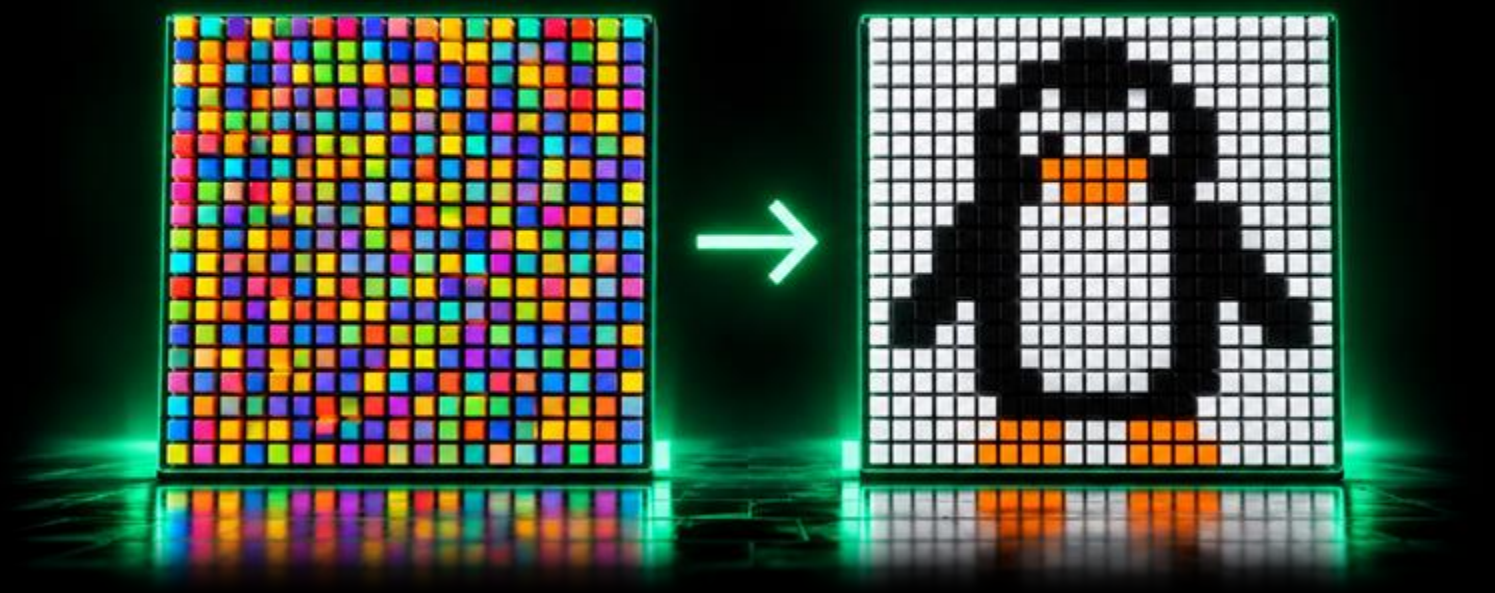
until you get the final result

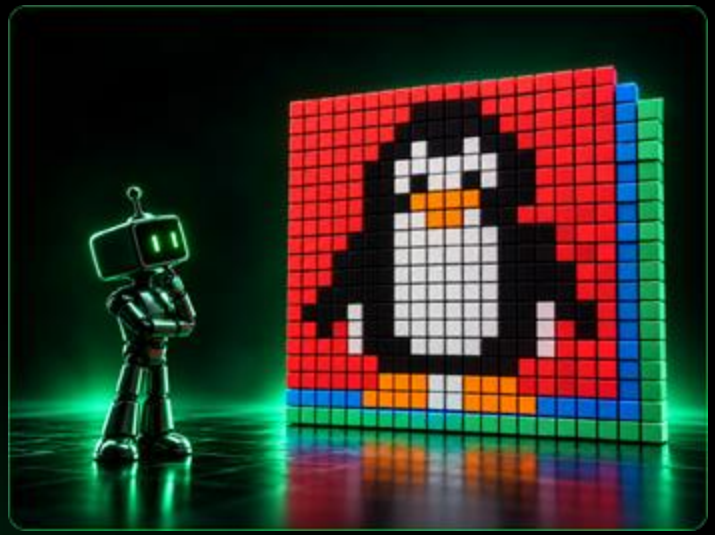
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But how does it do that?

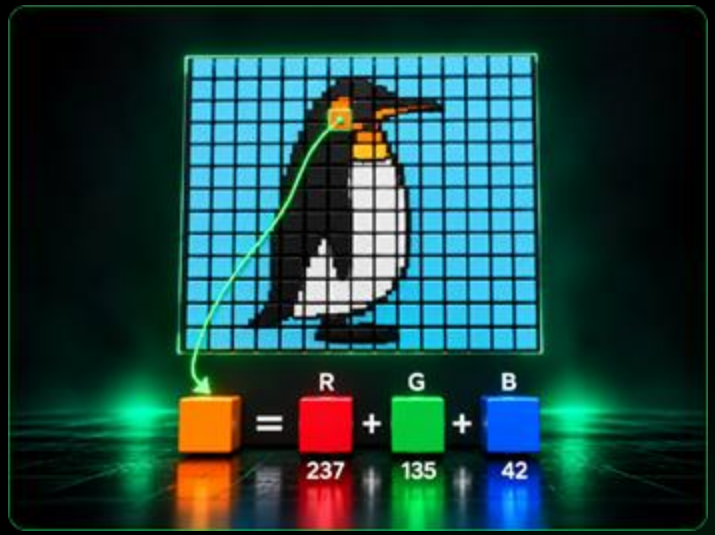
The process is called diffusion.

These models are trained on billions of images with text descriptions.





But machines don't see images like we do.
They see them as grids of pixels.



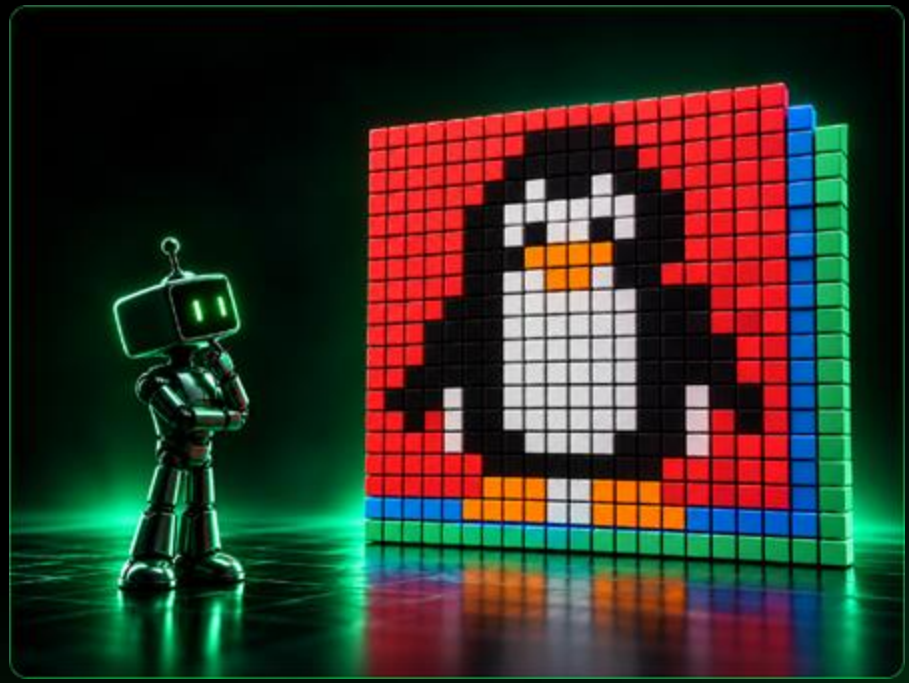
And each pixel is represented by three numbers
for red, green, and blue.

To capture all these fine details, these models are trained by taking each image and slowly randomizing all the pixels until it becomes pure noise.

Then the model is trained to reverse the process to reconstruct the original image



So when you ask AI to make an image for you
it's replicating that reversal process by taking an image with random pixels, adjusting the pixel values until it constructs the image you want.



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The energy cost of AI



Every time you ask AI a question, that request is sent to a data center and processed by thousands of AI chips.





Because the hardware in our phones and laptops isn't powerful enough to do it.





These data centers need two things to operate.



First, they need electricity to run. In 2024, data centers used 2% of the world's electricity.



But this number is for all data centers that keep the internet running.





Most cooling systems use fresh water.

And the average data center consumes 300,000 gallons of water every day, which is equivalent to 19,000 showers.

Unfortunately, we don't have precise or reliable numbers for how much energy or water AI uses alone.

Because tech companies aren't revealing the size of their newest AI models, But AI developments and usage are likely to keep increasing

next few years, which will require more data centers aka more electricity and water than before.



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Thankfully, some solutions are starting to emerge to make AI more energy efficient.



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First, we could run AI on our personal devices instead of data centers because they've been getting more powerful hardware.

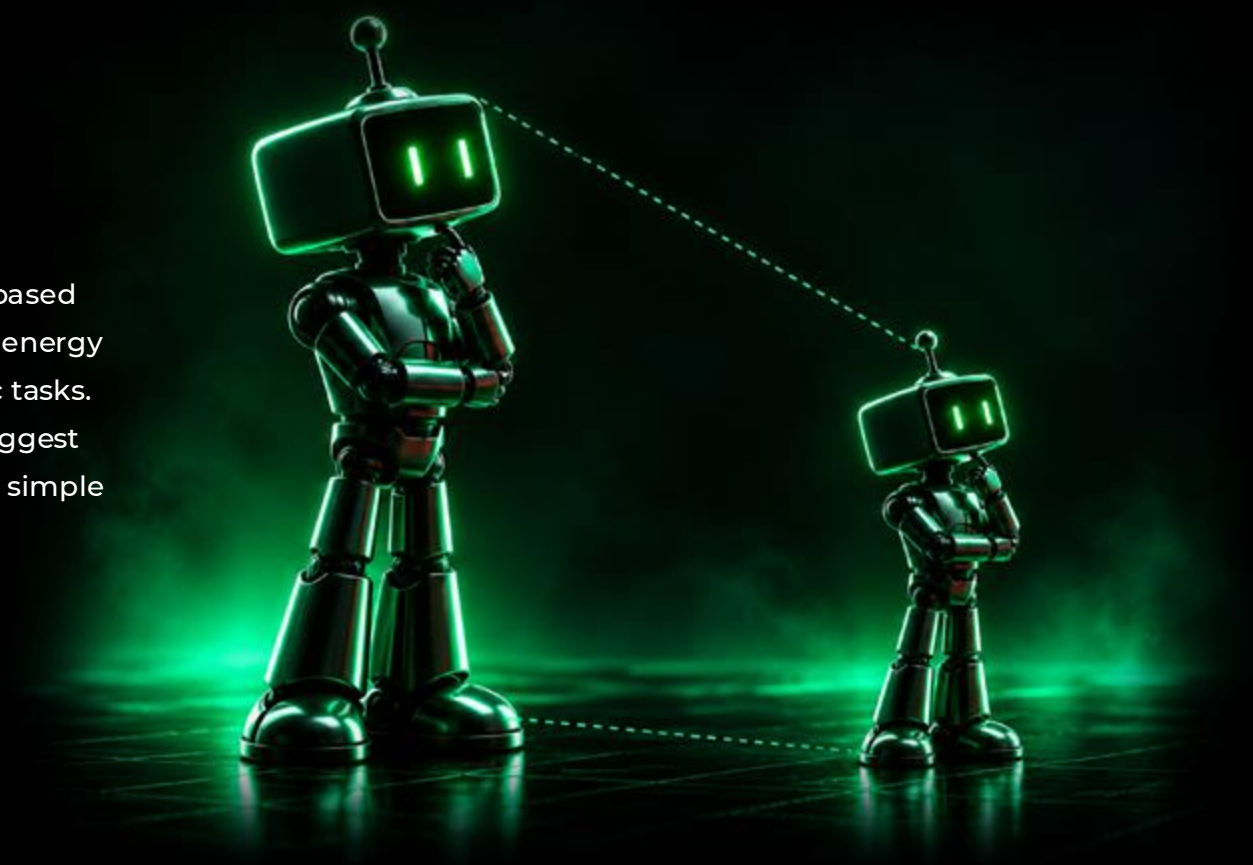
For example, the new iPhone can run basic AI features on your device directly without sending those requests to a data center. Another solution is called model distillation.



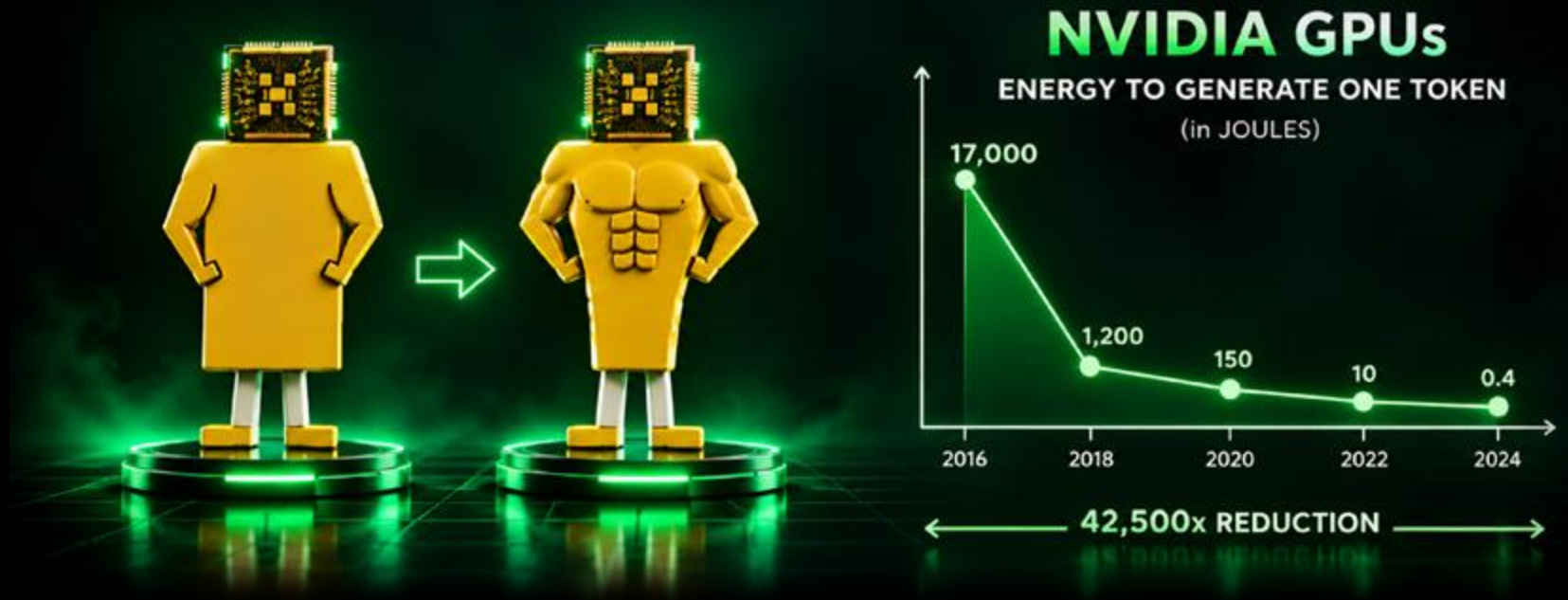
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Model Distillation

The idea is to create smaller models based on large models to make them more energy efficient and cost efficient for specific tasks. Because we don't always need the biggest and most advanced model if a task is simple



Finally, the AI chips and data centers are getting more efficient, which means they need less energy to produce the same output.



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A brief history of AI




1950
1956
1956
1973
1956
1966
1973
Can machines think?
TURING TEST
ALAN TURING
1
2
THE DARTMOUTH SUMMER RESEARCH PROJECT ON ARTIFICIAL INTELLIGENCE
A PROPOSAL FOR THE DARTMOUTH SUMMER RESEARCH PROJECT ON ARTIFICIAL INTELLIGENCE
June 18 - August 17, 1956
Dartmouth College
Hanover, New Hampshire
AI RESEARCHERS
GOVERNMENT (DARPA)
$
ELIZA
Your problems don't appear in my scripts
1956
1966
1973
ALPAC REPORT
USA
Expensive
Less Accurate
Slower
Not solving useful problems
LIGHTHILL REPORT
UK

First AI Winter

1973 — 1980



This sent the industry into its first winter where funding dried up until the 80s.

Resurgence

1980's — 1990's



The field went through a slight resurgence after Japan invested heavily in its computing industry



which pressured the UK and the US to do the same.

Second AI Winter

1980’s 1990’s



But they failed to deliver on their promises again and entered a second winter.

Second AI Winter

1980’s 1990’s



At this point, 40 years had gone by with no fruitful applications of AI, and the industry was at rock bottom

Some computer scientists were even ashamed to say that they worked on AI and avoided the term completely. But things were about to take a dramatic turn in the late 90s because the perfect storm was brewing.

The Perfect Storm

1990's — Today



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The Perfect Storm

1990's — Today



Computer chips today are 40 million times more powerful than they were 50 years ago.



Second, there was way more digital data available as we moved all of our lives and work online, which could be collected as training data.



And both of these things enabled machine learning algorithms that can replicate and simulate intelligence.

If AI can do it all, what am I good for?



Since the 2010s, the AI field has slowly recaptured the public's attention and became an overnight sensation with the release of ChatGPT.



Big tech companies are racing to the top, everyone has an AI startup, and people are torn between the benefits AI can provide, the harm it creates, and most importantly, the existential question.

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The future is hard to predict,
but it feels like the real story is just beginning.