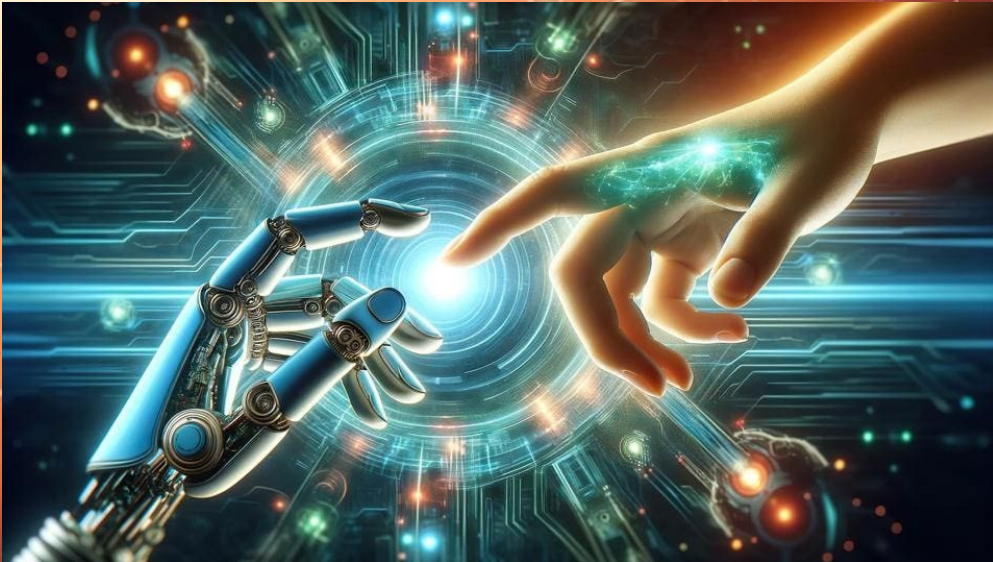


# Artificial Intelligence Practical Uses for Efficiency

Chris Chism

Superintendent – Pearl Public School District



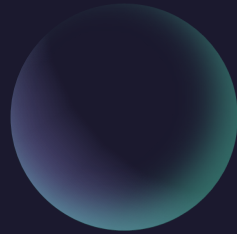
662-549-0257

cchism@pearlk12.com



# This is why the AI conversation is important.

Sam Altman  
OpenAI CEO



# Useful AI Tools

## Meta Glasses



## Plaud Note/Pin





A new medium for  
presenting ideas.

Powered by AI.

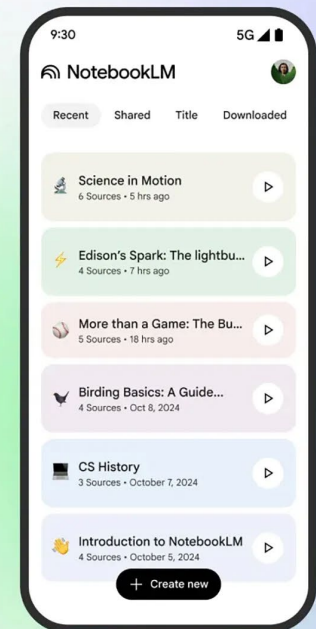


Create Presentations

Podcasts, Notes, & Study Guides



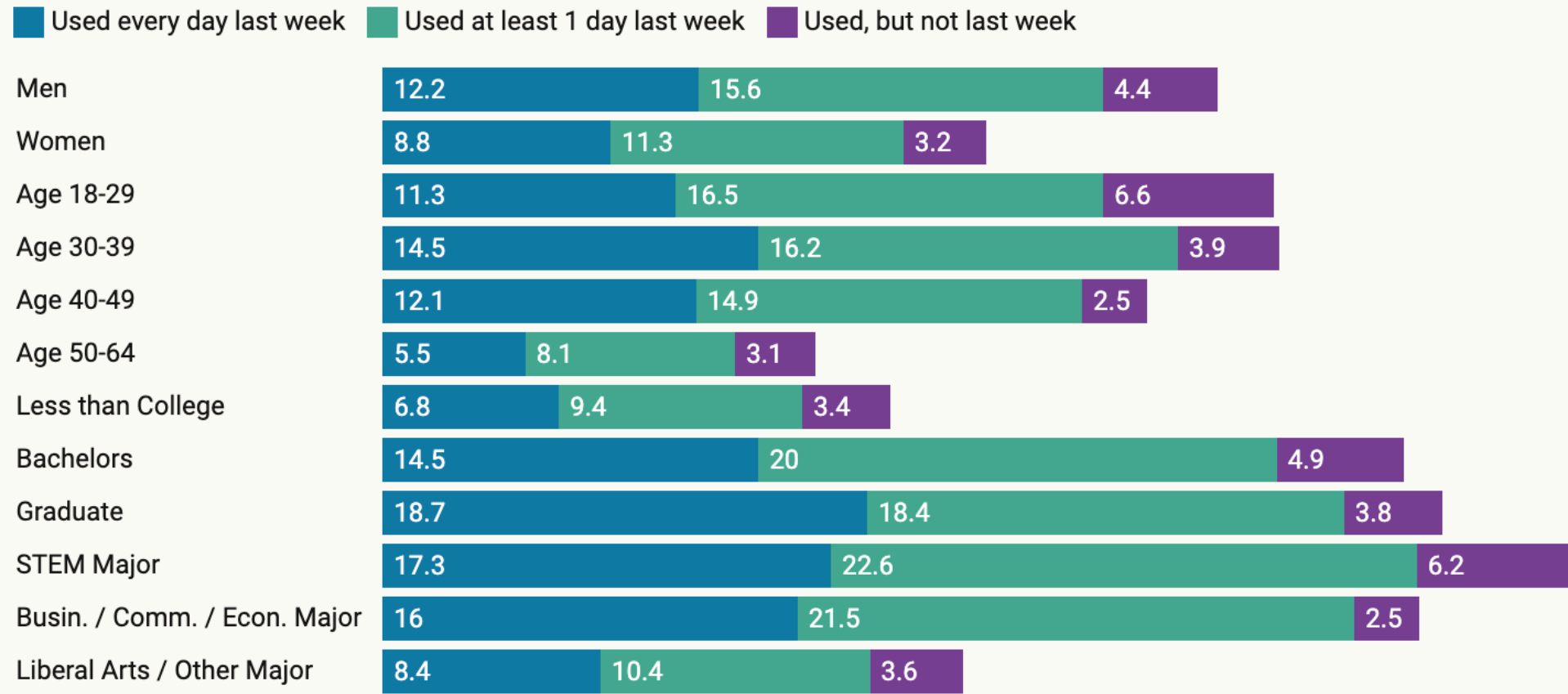
NotebookLM





# WHO is Using AI?

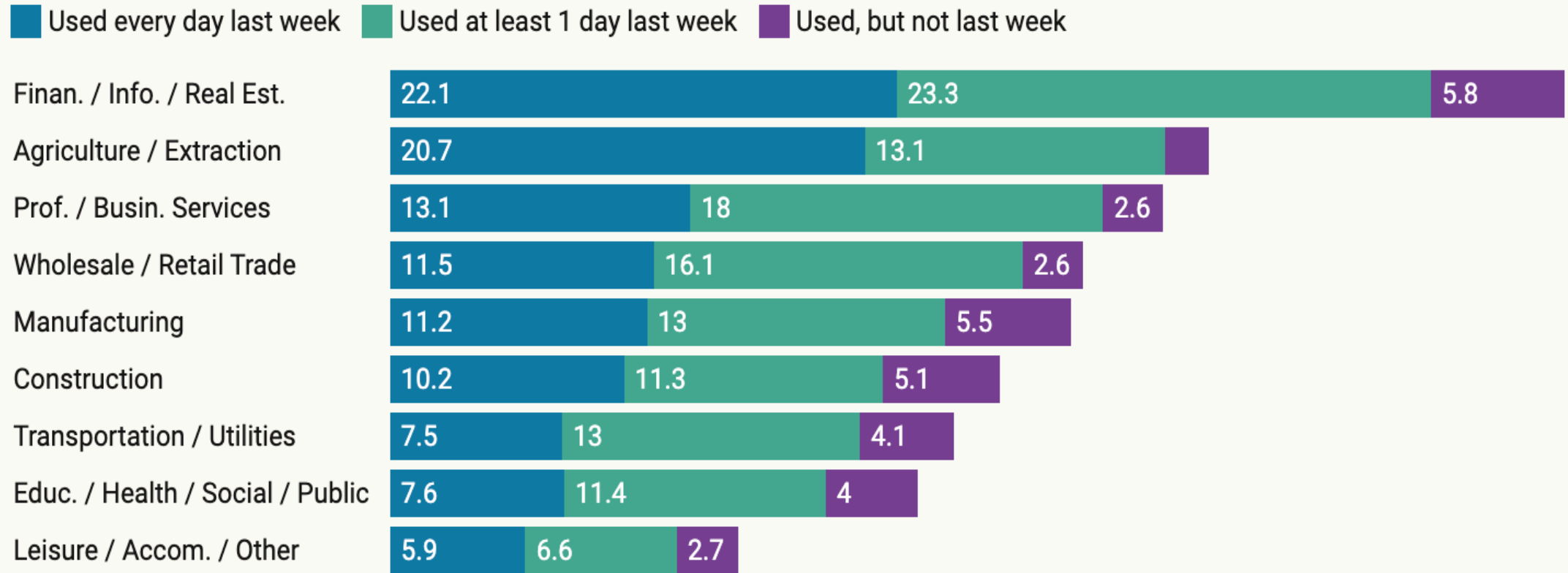
## Demographic differences in AI use at work



Source: [The Rapid Adoption of Generative AI](#) \* • Created with [Datawrapper](#)

# In WHAT Industries?

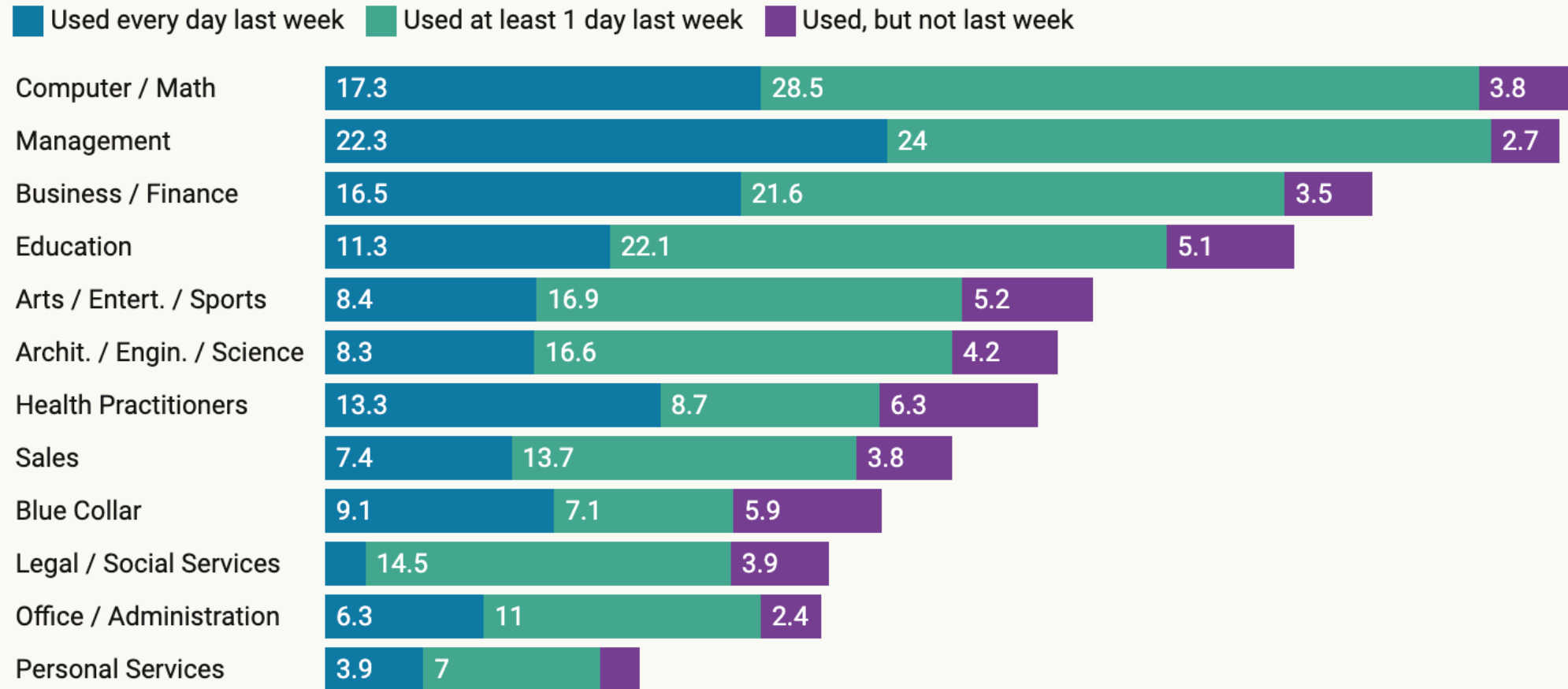
## AI use at work by industry group



Source: [The Rapid Adoption of Generative AI](#) \* • Created with [Datawrapper](#)

# In WHAT Specific Occupations?

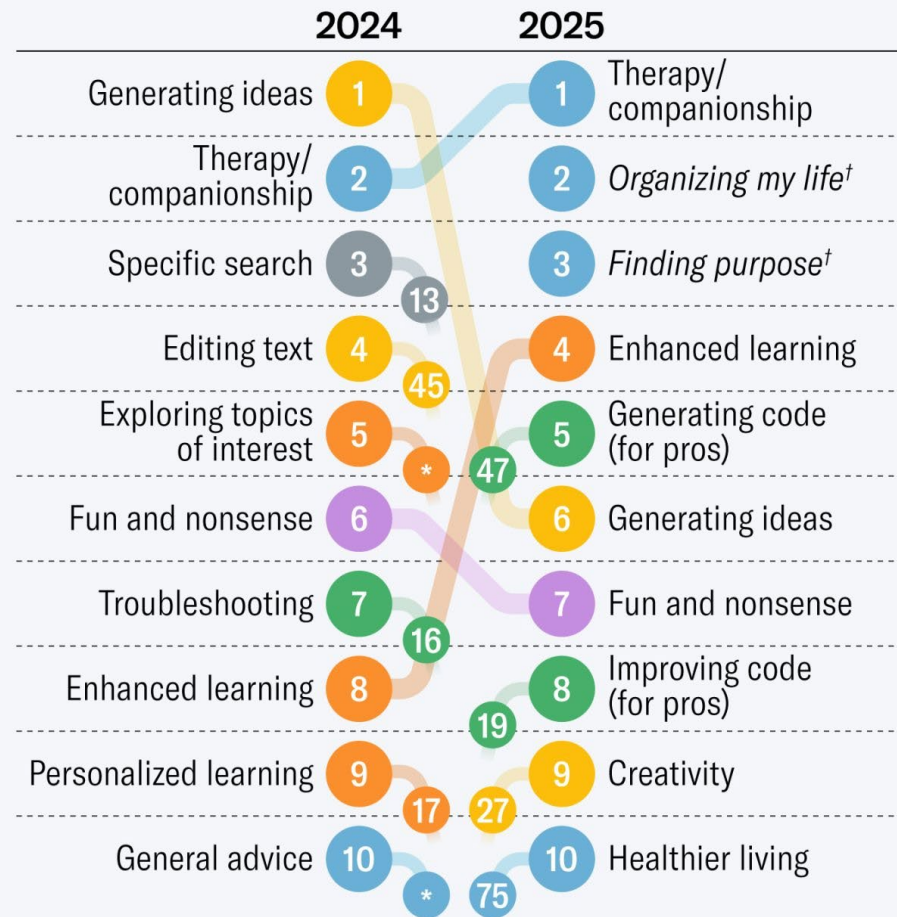
## AI use at work by occupation



Source: [The Rapid Adoption of Generative AI](#) \* • Created with [Datawrapper](#)



## Top Gen AI Use Cases



\*Did not make list of top 100 in 2025

†New use case

Source: Filtered.com

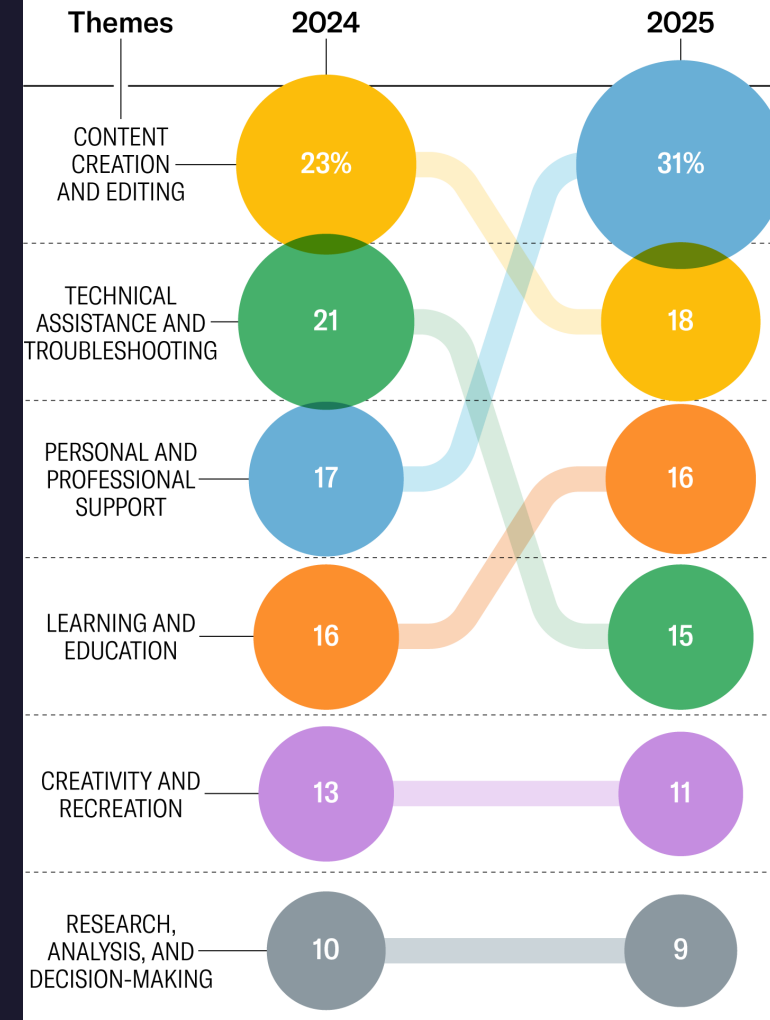


# Top AI Use Cases 24->25

# AI Use Themes 24->25

## Major Gen AI Use Case Themes That Emerged

Use cases have shifted from technical to emotive over the past year.



Source: Filtered.com



1 Therapy/companionship	36 Imagination	71 Meeting summaries
2 Organizing my life	37 Generating appraisals	72 Cleaning up notes
3 Finding purpose	38 Relationship advice	73 Enhanced decision-making
4 Enhanced learning	39 Practicing difficult conversations	74 Navigating love lives
5 Generating code (for pros)	40 Building lists	75 Language translation
6 Generating ideas	41 Homework	76 Replying to emails
7 Fun and nonsense	42 Raising/guiding kids	77 Learning at work
8 Improving code (for pros)	43 Work buddy	78 Enabling better conversations with doctors
9 Creativity	44 Refining prompts	79 Structured thinking
10 Healthier living	45 Editing text	80 Data entry
11 Preparing for interviews	46 Drafting emails	81 Explaining technical documents
12 Generating relevant images	47 Excel formulas	82 Negotiating a deal
13 Specific search	48 Evaluating copy	83 Disputing a fine
14 Simple explainers	49 Personal finance	84 Generating video
15 Cooking with what you have	50 Help with reading books	85 Safe space to ask
16 Troubleshooting	51 Drafting a document	86 Eliminating meetings
17 Personalized learning	52 Drafting formal letter	87 Using MS Office apps
18 Boosting confidence	53 Fact-checking	88 Creative writing
19 Adjusting tone of email	54 Shopping	89 Exploring religion
20 Explaining legalese	55 Getting past writer's block	90 Choosing wine
21 Entertaining kids	56 Fixing bugs in code	91 Customer service
22 Corporate LLM/Copilot	57 Language learning	92 Breaking the rules: How People Are Using Gen AI
23 Writing student essays	58 Rubber duck debugging	93 Sampling data
24 Creating a travel itinerary	59 Understanding sex	94 Spotting anomalies
25 Personalized kid's story	60 Making sense of academic papers	95 Building a business plan
26 Medical advice	61 Generating synthetic data	96 Creating products and branding
27 Reconciling personal disputes	62 Generating a lesson plan	97 Writing blog posts
28 Generating a legal document	63 Classifying by criteria	98 Writing social media copy
29 Deep and meaningful conversations	64 Ad/marketing copy	99 Systematizing social media
30 Anti-trolling	65 For entrepreneurs/startups	100 Planning workouts
31 Dungeons & Dragons	66 For people with ADHD	
32 Tax advice	67 Writing/editing CV/résumé	
33 Interacting with the deceased	68 Organizing a brain dump	
34 Summarizing content	69 Thinking better	
35 Coding for amateurs	70 Recommending movies, books, etc.	

# ALL AI Uses in 2025

BLUE – PERSONAL

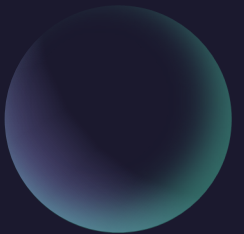
ORANGE – EDUCATIONAL

YELLOW – CONTENT CREATION

GREEN – TECHNICAL ASSISTANCE

PURPLE – CREATIVITY

GREY – RESEARCH & ANALYSIS





# Where are we?

## **2nd Generation “Context-Based AI”**

Siri, Google Assistant, Alexa, Amazon, etc.

Uses the surrounding environment to make predictions. Makes “informed decisions”.

Predicts user needs based on data.

## **Cognitive Computing (2025) 4th Gen**

Understanding pictures, language, audio, and video.

Discussions and General Information

## **WHAT'S NEXT???? 5th Gen**

### **Artificial General Intelligence**

Human-Like Cognitive Abilities (Knowledge & Reasoning)

**Can UNDERSTAND – LEARN – APPLY**

## **Rule – Based AI (60's) 1st Generation**

Didn't work very well. Only as good as the “rules” that were given.

## **3rd Generation “Narrow-Domain AI”**

Stock Market (70% of trade volume is through algorithms), Weather, Elections (campaigns), Healthcare, Insurance, etc.

Master Specific Tasks through algorithms

AI in Healthcare can comb through images and data to help doctors make better decisions.

## **6th Gen Super Intelligent AI**

Has the ability to improve, evolve, and adapt without any human input.

**Decision-Making, Problem-Solving, Creativity, Wisdom, & Strat. Planning**

# Yes, there's more!

## 7<sup>th</sup> Gen – Self-Aware AI

Use quantum algorithms to simulate human consciousness.

## 8<sup>th</sup> Gen – Transcendent AI

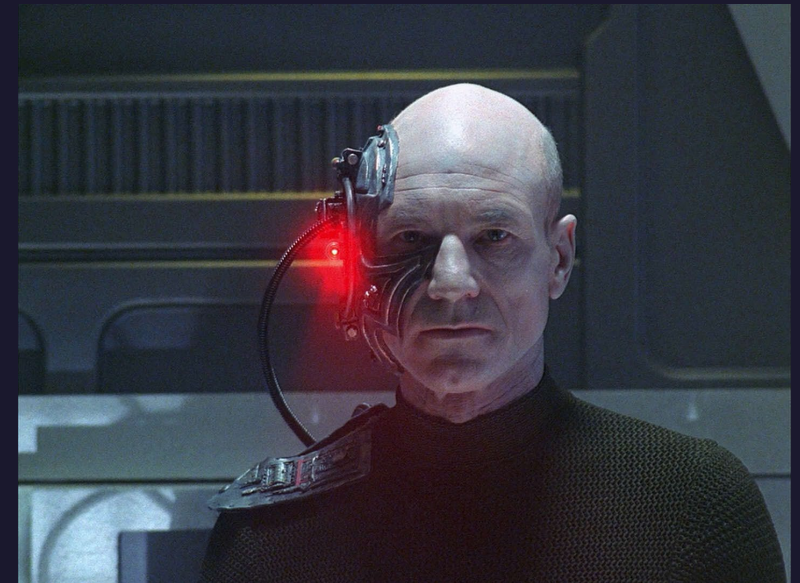
Could create new lifeforms (biological, **digital**, or ?)

## 9<sup>th</sup> Gen – Cosmic AI

Interstellar exploration

Understands everything from the quantum to cosmic scale

*Sounds Star Trek-ish*



# According to OPENAI

## OpenAI Imagines Our AI Future

### Stages of Artificial Intelligence

---

Level 1	Chatbots, AI with conversational language
Level 2	Reasoners, human-level problem solving
Level 3	Agents, systems that can take actions
Level 4	Innovators, AI that can aid in invention
Level 5	Organizations, AI that can do the work of an organization

Source: Bloomberg reporting

1. Automation
2. Innovation
3. New Industries
4. Productivity Increase
5. Economic Impact
6. Job Transformation
7. Global Reach

This is the “NEW” INDUSTRIAL REVOLUTION.





# NOTICED SAM ALTMAN'S BLUE BAG?

It's here to save the world!

All major companies have agreed to employ  
safety systems that kill power.



# Geoffrey Hinton

THE GODFATHER OF AI





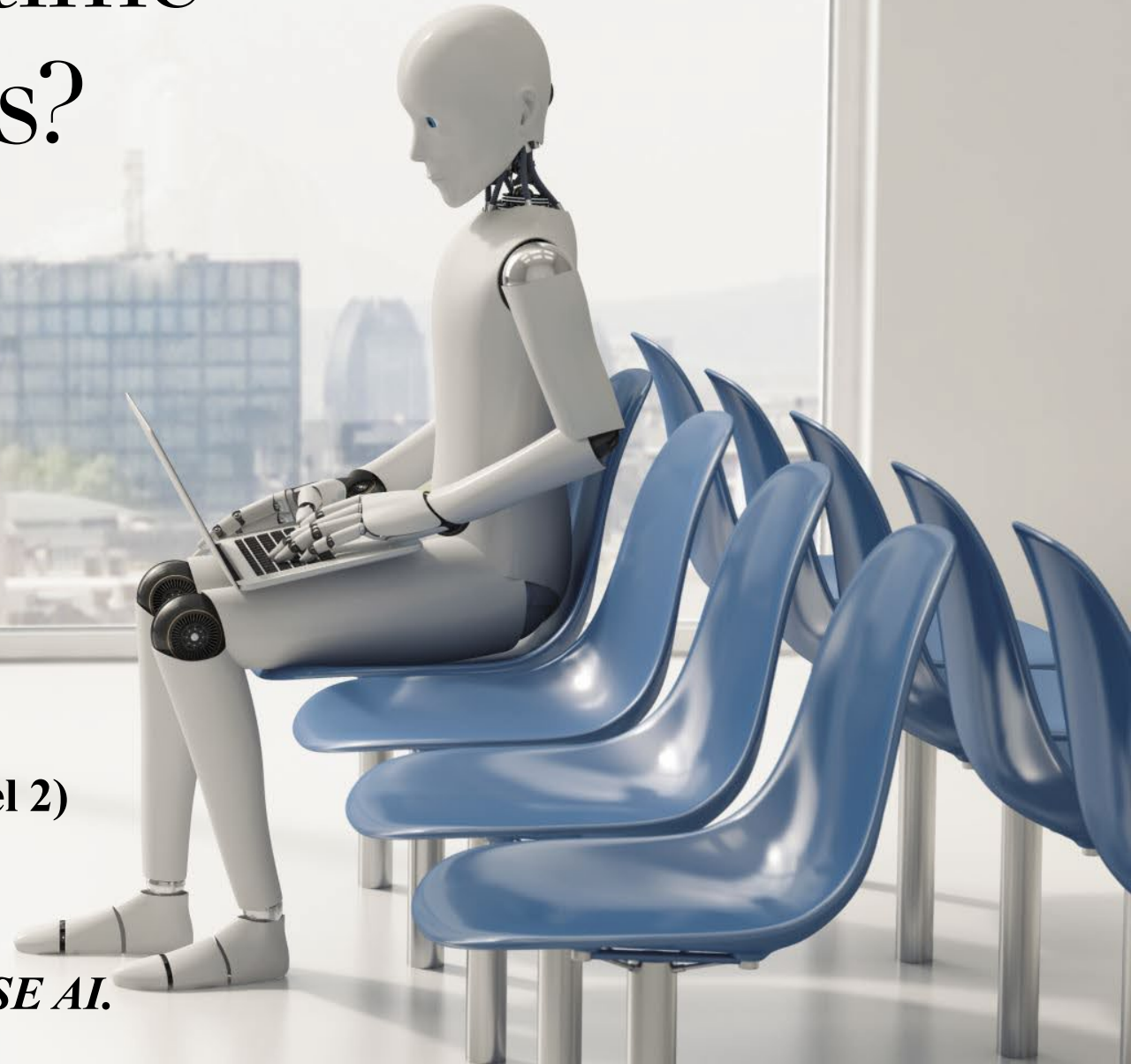
# I am asked this all the time- Will AI replace humans?

**SOME**

**REASONERS could replace 30% of current jobs. (Level 2)**

***AI will replace repetitive jobs.***

***People who USE AI will replace people who DO NOT USE AI.***

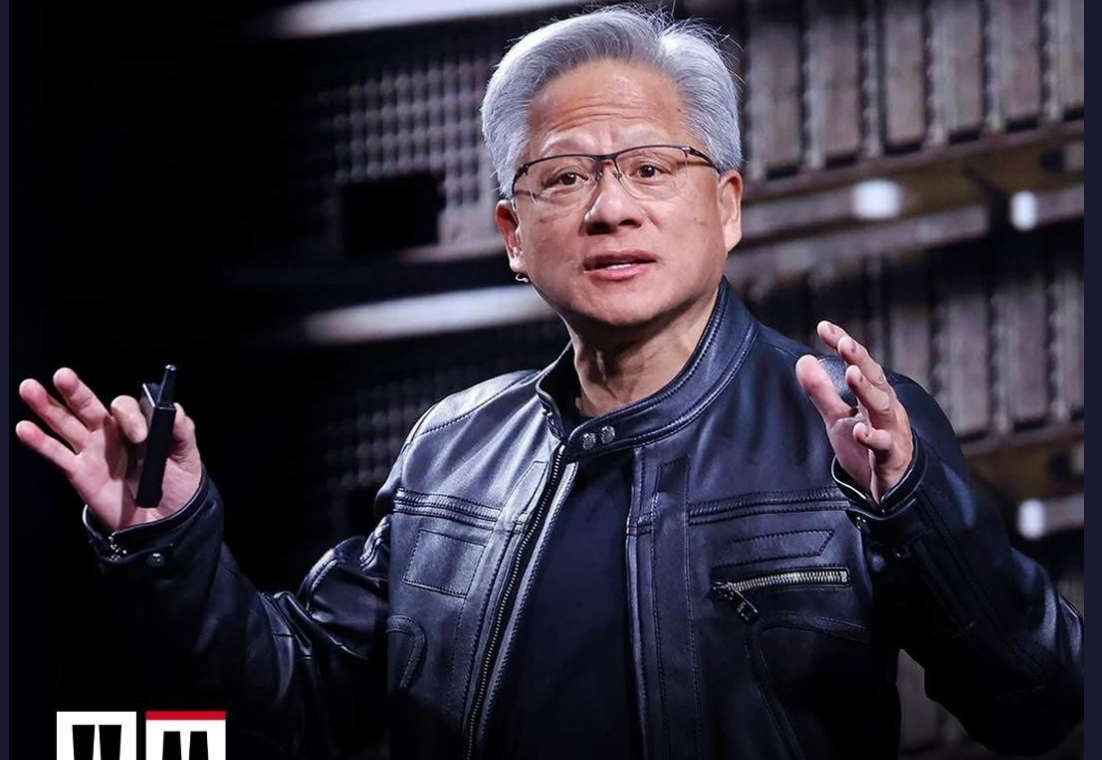




# Jensen Huang CEO NVIDIA



INTELS



THE NEXT GENERATION OF  
U.S. MILLIONAIRES WILL BE  
**PLUMBERS & ELECTRICIANS**

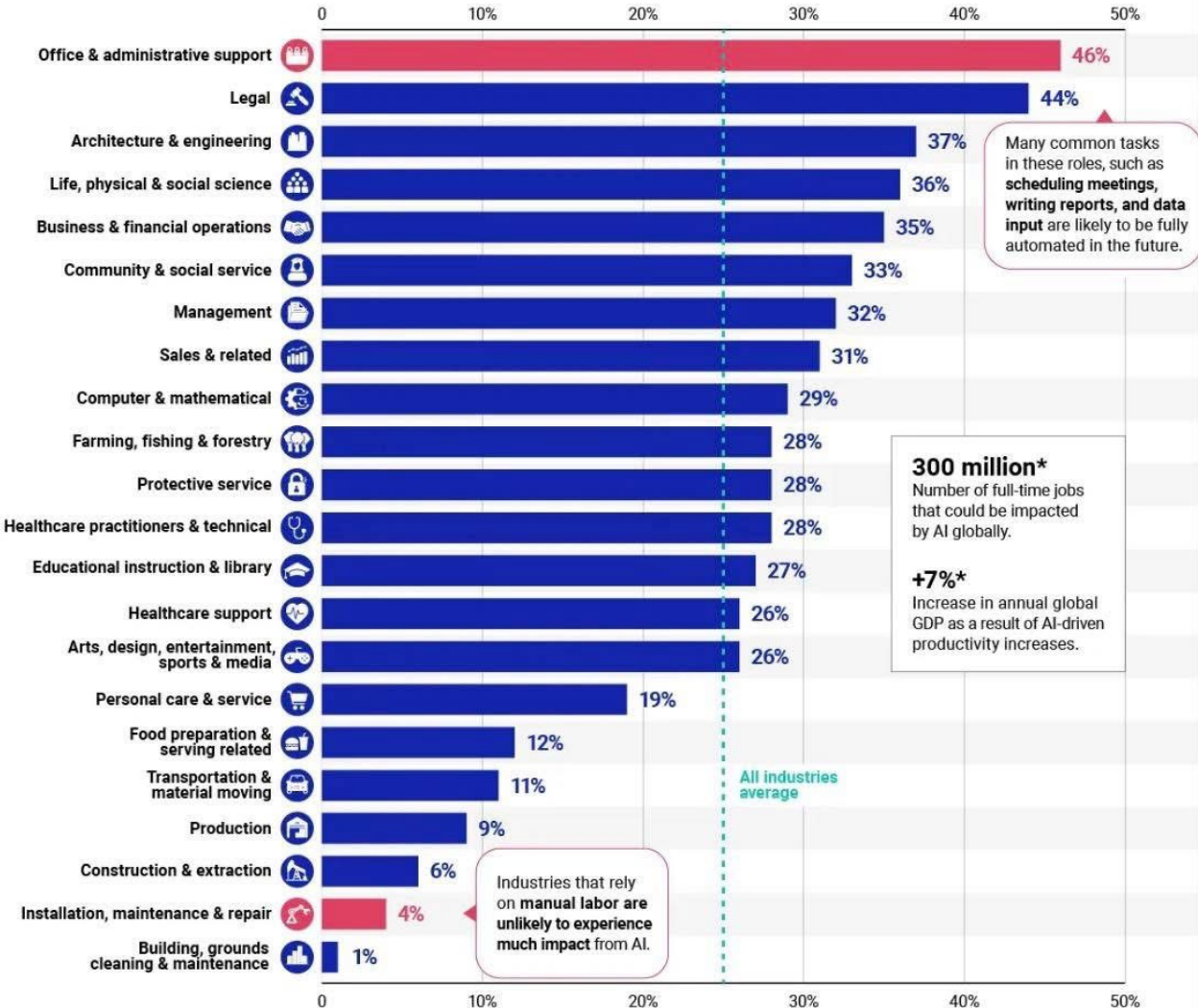
JENSEN HUANG, NVIDIA CEO

This should get your attention.

# U.S. Industries with the Highest Potential for Automation

i Automation exposure was estimated for 900+ U.S. jobs using the O\*NET occupational database. Exposure estimates were weighted by the employment share of each occupation, and aggregated to the industry level.

Estimated Share of Employment Exposed to AI Automation



# What jobs are in danger?

1. Entry-Level Technology Roles
2. Writing and Proofreading
3. Translation Jobs
4. Graphic Design
5. Fast Food Order Taking
6. Postal Clerical
7. Data Entry Positions
8. Bank Teller Positions
9. Administrative Support
10. Legal Roles
11. Telemarketers
12. Recruiters
13. Customer Service Positions
14. Retail Cashiers
15. Warehouse workers
16. Market Research Analysts
17. Assembly Line Workers
18. Delivery Drivers
19. Cab Drivers/Truck Drivers
20. Financial Analysts
21. Medical Imaging Technologists
22. Insurance Underwriters
23. Travel Agents
24. Tutors
25. Accounting



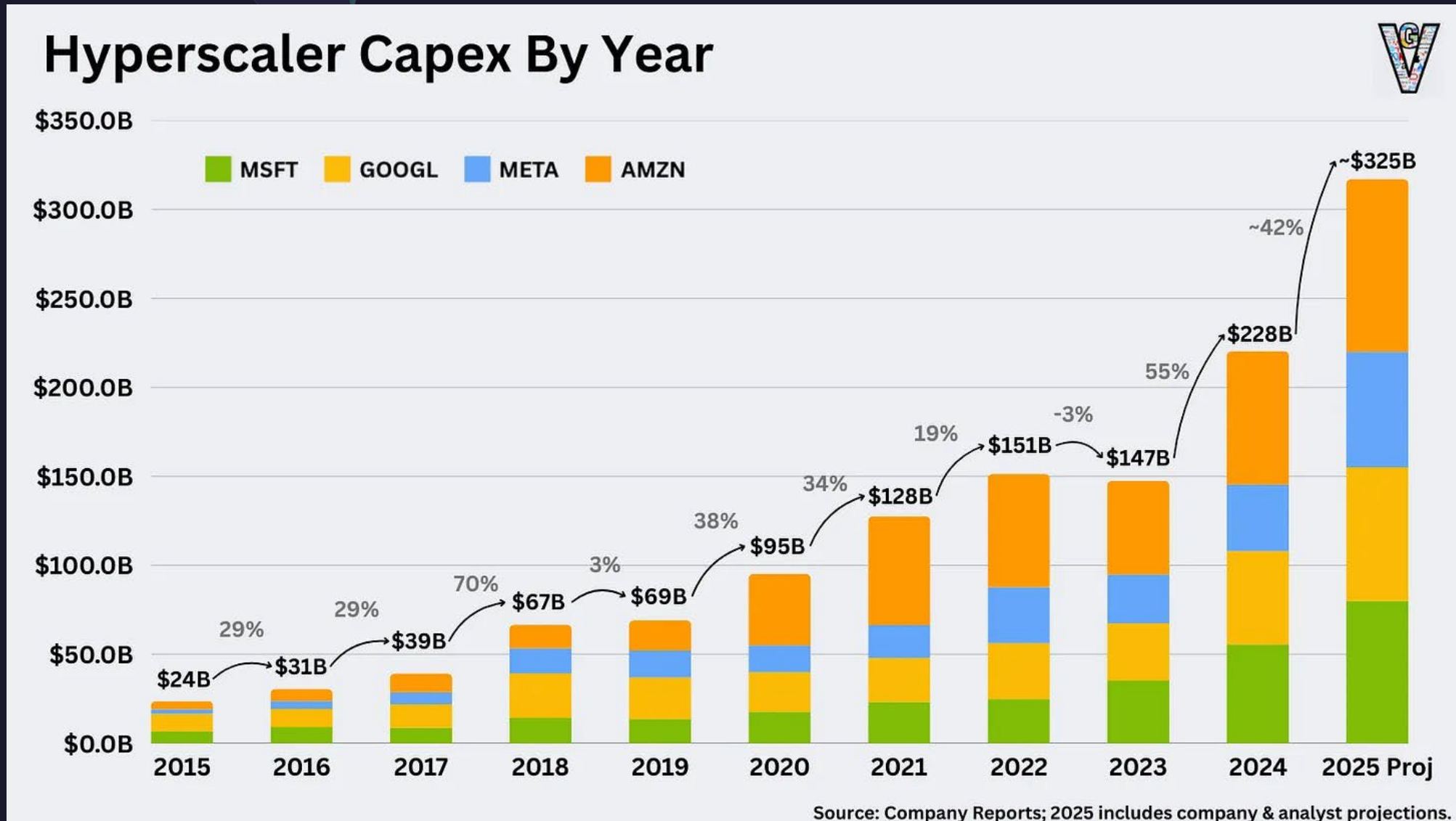


# Fastest Growing Jobs by 2030



1. Big Data Specialists
2. FinTech Engineers (financial)
3. AI & Machine Learning Specialists
4. Software & Application Developers
5. Security Management Specialists
6. Data Warehousing Specialists
7. Autonomous & EV Specialists
8. UI & UX Designers
9. Delivery Service (automated)
10. Internet of Things Specialist
11. Data Analyst & Scientist
12. Environmental Engineers
13. Information Security Analysts
14. DevOps Engineers (collaboration)
15. Renewable Energy Engineers

# Data Center Expansion – Capital Expenditures





# Where is this going in 2025-2026?



- More self-driving vehicles – not just Tesla vehicles. (28) WAABI
- More AUTONOMOUS vehicles. (Think delivery services.)
- Low-code and no-code development
- BCI's – Brain-Computer Interfaces
- AI XR & VR
- More BIOMETRIC Technology. \*72% of companies are planning to ditch passwords in the next two years.
- Education & Healthcare – “Personalized”
- Edge Computing, Cloud Computing, and 5G connectivity.
- AI in Cybersecurity – Ryan Montgomery (Pentester.com)
- **AI Agents** and **AUTOMATION**.
- Robotics – Humanoid & Language Enabled
- AI Powered Creativity – Movies, Music, Etc.
- AI Native Computing built in.



# Continued...

## Silicon Meets Neuron

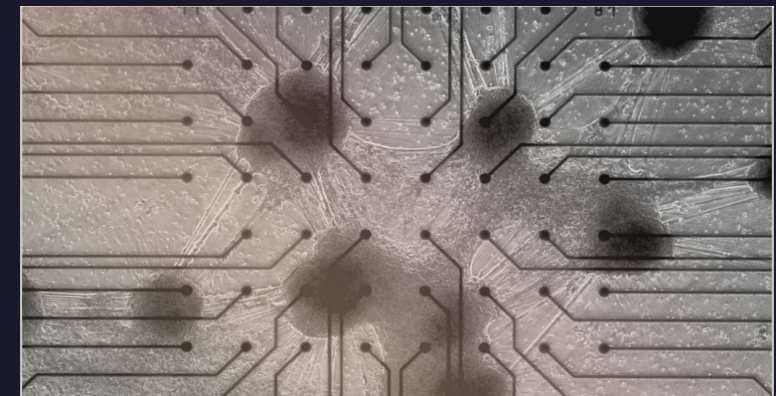


## The Power Problem

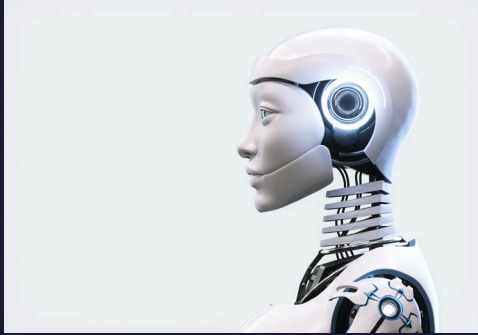
*"Neurons that fire together – wire together."*

## SBI Synthetic Biological Intelligence

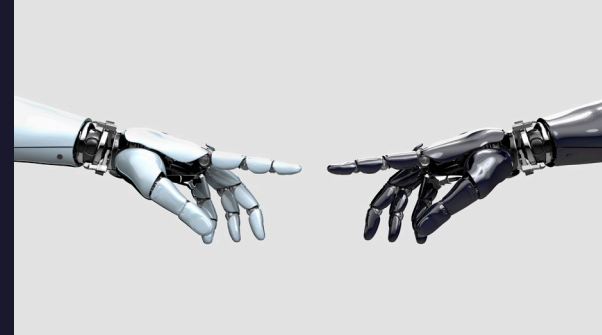
	
266,000 kg	1.3 kg (~3 lbs)
21,000,000 W	20 W
1.102 exaFLOPS	1 exaFLOPS
US\$600,000,000	N/A



# Two Types of AI



LLM's



## GENERATIVE AI

This is REACTIVE

Prompt -> Generates

Text \* Images \* Video \* Music \*

Needs Human Intervention

## AGENTIC AI

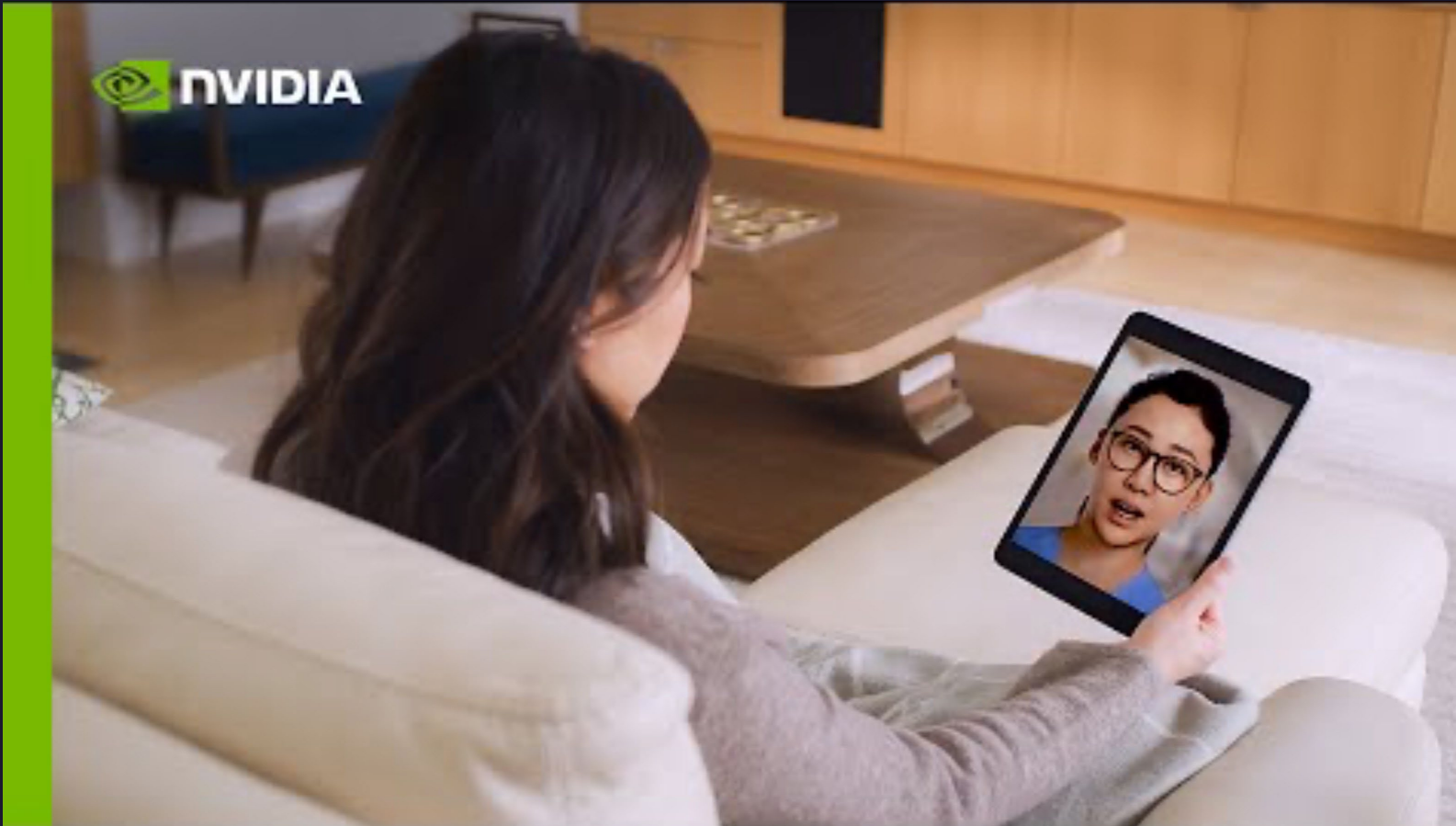
This system is PROACTIVE

Prompt -> Takes Action

Perceives -> Decides -> Executes -> Learns

Does NOT Need Human Intervention

# AI in Healthcare



## Hippocratic's AI

Has already passes 100+ exams including

Pharmacist License Exam

RN Exam

Acute Care Nurse Practitioner Exam

Certified Professional Coder Exam

Obstetrics & Gynecology Exam

Urology Licensing Exam

Hospital Safety Training Exam

Registered Dietician Exam

Lactation Consultant

Health Compliance Officer

USMLE

Created their own LLM for this purpose focusing on detecting “tone” and communicating empathy.



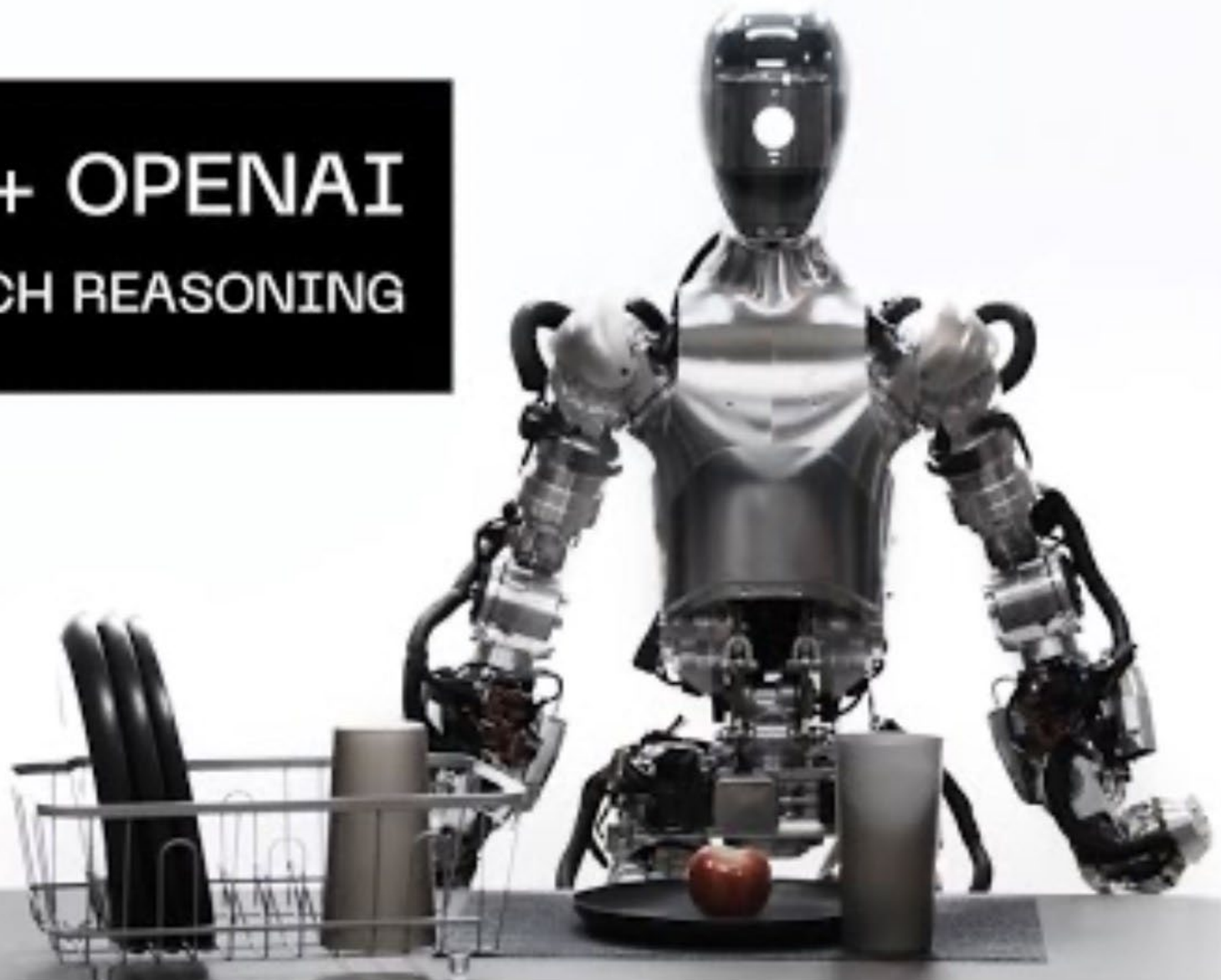
# AI in Healthcare NOW



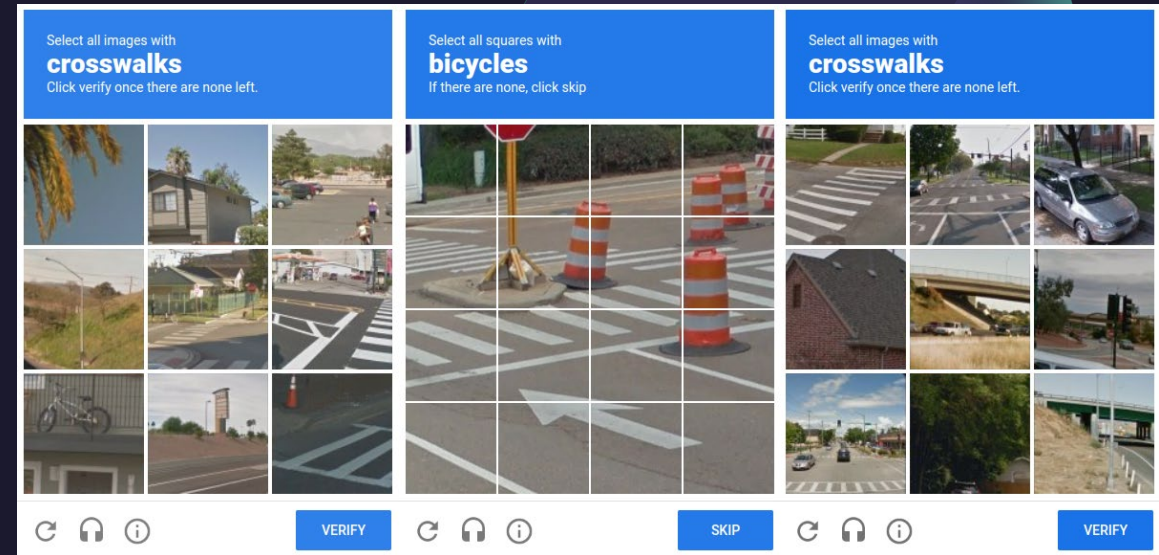
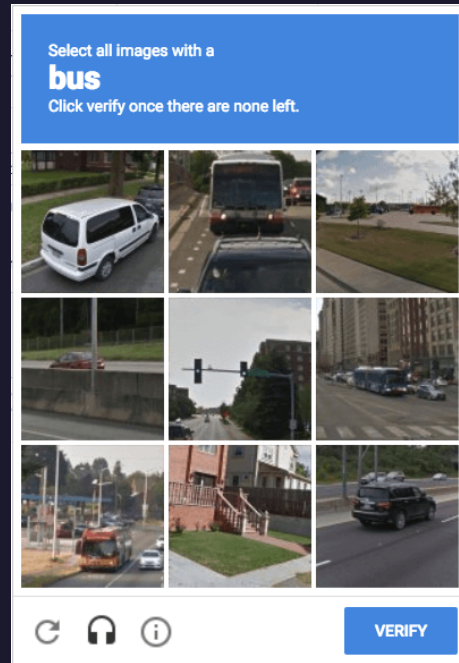
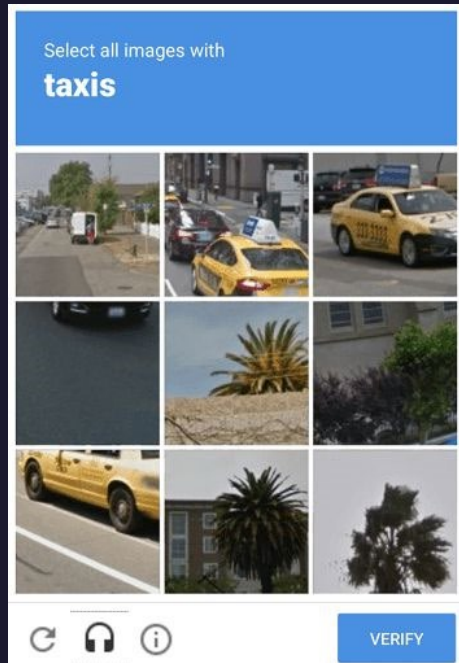


# FIGURE 1 ROBOT

**FIGURE 01 + OPENAI**  
SPEECH-TO-SPEECH REASONING



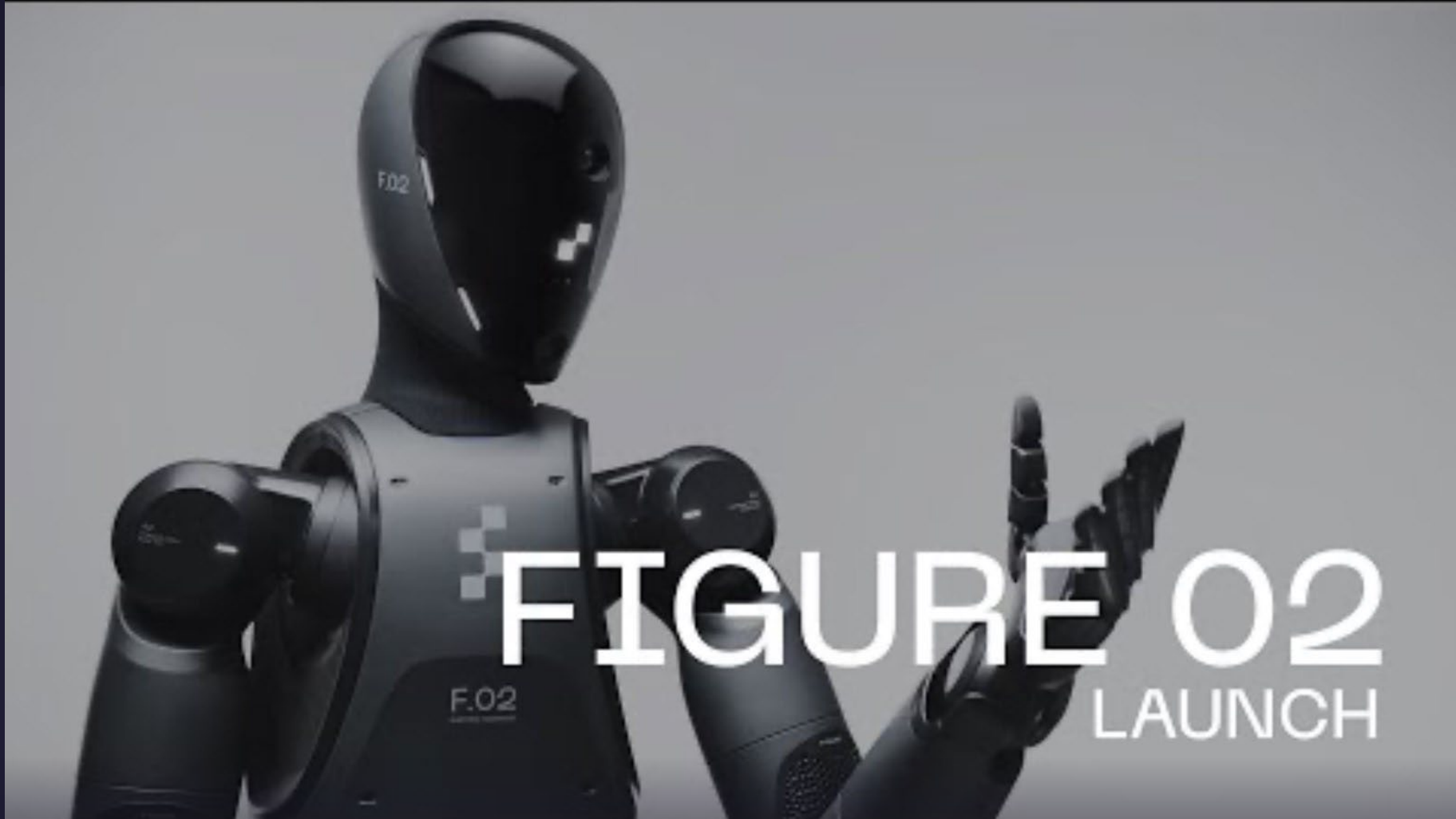
# Little Known Fact...



YOU have been training AI to use images for YEARS. They also use public databases for images.

\*This wasn't the initial "intent" of using CAPTCHA, but this is the data being used to train these models on pictures and video.

FIGURE 2 – Just released 8/6/24



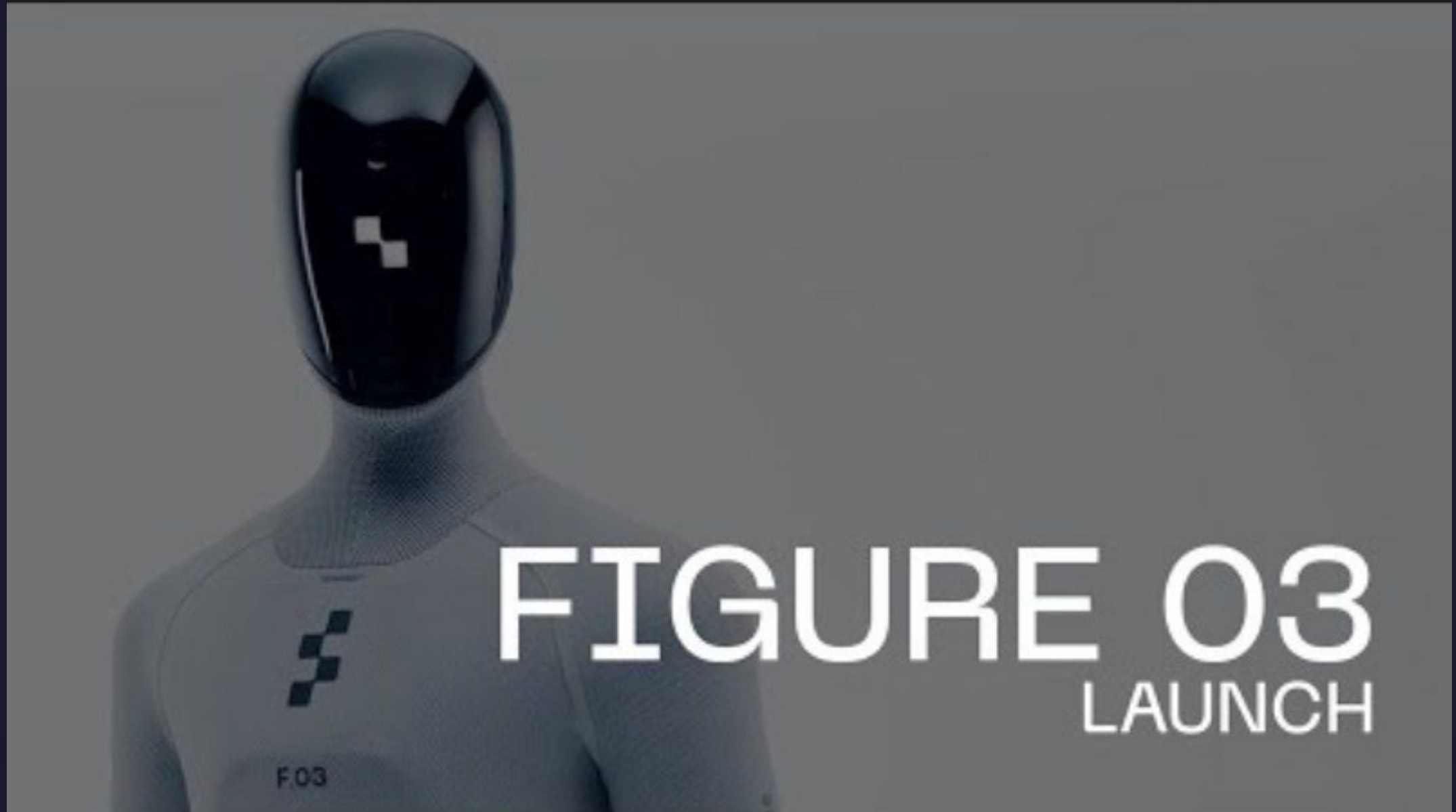


BMW Update

BMW  
UPDATE



# Figure 03





# There may be some issues soon...

As of late 2025, estimates suggest that over **50% of NEW articles online** are written by AI.

Some estimates say 57% as of December 2025.



## What can this cause?

### ”Model Collapse”

- Loss of information diversity
- Amplification of errors
- Bias
- Drifting from “reality”
- “Autophagy effect”

This is like making a copy of a copy of a copy.  
The model eventually loses clarity.  
Models become poisoned with their own projections.

# Is There A Solution?

New companies using AI are working on the following:

- SIMULATION
- ROBOTICS
- SENSOR-RICH INTERACTIONS
- REAL-WORLD FEEDBACK



“PHYSICAL AI” or EMBODIED INTELLIGENCE

## 1. Accelerating AI Training & Development

- Synthetic Data Generation
- Safe Testing Ground

## 2. Bridging the Reality Gap

Combining simulation and real-world feedback creates a closed-loop system that refines AI performance. Think about “weather modeling”.

## 3. Enabling Intelligent, Adaptive Systems

- Real-Time Decision Making
- Human-Robot Collaboration

*This is **NOT** just web scraping for curated text anymore.*

If you want the MOST important piece of information today, hear this...

*100% OF AI IS DATA CONSUMPTION – You ARE the product.*

# This comes with some issues as well!

Safety and Reliability – These systems sometimes go off the script.

Accountability – Who is responsible if harm is caused?

Bias and Discrimination – Historical biases based on data

Privacy & Surveillance – Human activities and environments

Job Displacement & Economic Equality – Issues if no retraining of current staff occurs.

Loss of Human Connection & Empathy

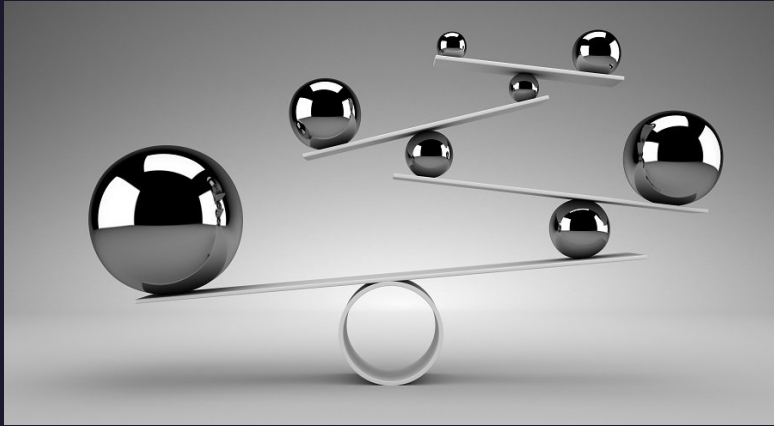
Human Autonomy & Control – Coercion of human counterparts.



*\*\*This is why guidelines and boundaries are important.\*\**

“I believe we are at an “inflection point” that will change humanity as we know it. AI will become a NEW DIGITAL SPECIES.”

-Mustafa Suleyman – CEO Inflection AI



1. They can communicate – all languages
2. They see what we see
3. They consume massive amounts of information
4. They have a working memory
5. They have personality
6. They have creativity
7. They can reason
8. They can formulate plans
9. They can act autonomously – if we allow it

**“Your scientists were so preoccupied with whether or not they could, they didn’t stop to think if they should.”**

**-Jurassic Park**





Free IS NOT "FREE"!

# DATA PRIVACY – FERPA Laws

<http://ollama.com>

*\*Through Ollama, you can run it on your own machine.*



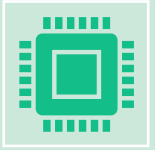
## Other Models We Use

- Mistral
- Llama4
- LLama3 70B
- LLama3 3.2
- LLama3 8B
- DeepSeek
- DeepSeek-1776
- DeepSeekR3
- Qwen3
- Magistral
- gpt-oss:120b
- gpt-oss:20b

Privacy is not what you think it is - even when companies SAY your data is safe!

Check the small print.... They may COMPLY, but they still USE your data for training.

# How does AI (like ChatGPT) work?



## Gathering Knowledge (Training) –

Imagine students learning math. They would read books, get lessons, practice, and ultimately get feedback. AI uses text, images, and numbers.



## Recognizing Patterns (Building Intelligence)

Students recognize patterns like  $2+3=5$ . AI does the same. It understands “dog” because of seeing thousands of images.



## Making Predictions (Using Knowledge)

Student then takes a test and applies knowledge based on those patterns. AI does the same. Probability of next word or phrase.



## Continuous Improvement (Feedback Loop)

Student sees the answer was right or wrong and gets feedback. AI does the same. Engineers fine tune outputs based on feedback.



This service is NOT free. They USE your feedback to make the program better.

# What does that mean for us in EDUCATION?

## THIS IS MACHINE LEARNING

- Your input matters. The system gets better with time.
- The responses given will change quickly and often – depending on “temperature” setting. “Randomness & Creativity Setting”
- The programs used to identify AI writing samples will eventually fail – sooner rather than later.

## AS SCHOOLS, WE HAVE THREE OPTIONS

- Try to BLOCK it at every turn. Computers, School Networks, etc.
- Try to CATCH it using other programs. This may work in the short term.
- USE it within the classrooms by being intelligent with our classroom design.

# How do we mitigate this? (now)

1. ASK STUDENTS TO WRITE ABOUT SOMETHING PERSONAL. (FAMILY, FRIENDS, ACTIVITIES, ETC.)
2. USE "PROJECT-BASED" LEARNING OR PORTFOLIOS – NOT JUST WRITING.
3. USE CHATGPT AND OTHERS WITHIN THE CLASSROOMS. LET THEM SEE IT AND USE IT. WEAVE IT INTO CURRENT LESSONS. ADD A "TROJAN HORSE".
4. ASK STUDENTS TO WRITE ABOUT A RECENT EVENT OUTSIDE OF THE NEWS.
5. ASK STUDENTS TO REFLECT ON THEIR WORK. AI LACKS PERSONAL INSIGHT.
6. USE FREQUENT CHECKPOINTS AS STUDENTS WORK.
7. ORAL PRESENTATIONS ALONG WITH WRITTEN WORK.
8. HAND-WRITE ESSAYS IN CLASS. IT'S A SIMPLE SOLUTION.



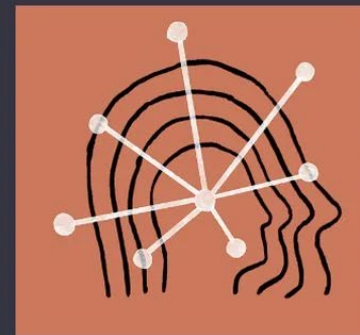
# Where are we now?

*\*ESTIMATES\**

ChatGPT 3.5	IQ 122
ChatGPT 4.0 (Paid)	IQ 150 Exposed to 630 BN
ChatGPT4o FREE	Phone Version
ChatGPT o1 & o3	Reasoning Models
Claude4.5	IQ 143
Gemini 2.5	IQ 147

SORA - Video Production Released

ChatGPT 5.2 is HERE! *IQ Est. **160***



Gemini *vs* ChatGPT *vs* Claude

DEEP RESEARCH has been added to ChatGPT - POWERFUL

AI was added to the **Microsoft Suite** in November of 2023. (co-pilot). This is now functional with most personal and business applications.

# ChatGPT 5.2 (flagship)

## 5.2 Mini (fast)

## 5.2 Thinking

### What's New?



1

Multimodality (text, images, voice, & video unified)  
& Personalities Added – Estimated 160 IQ

2

Extended Context Window 250—1M tokens  
Handles Much Longer Documents

3

Persistent Memory – Recalls Prior Conversations

4

Enhanced Reasoning & Coding Prowess  
Can Create Apps Via Prompting

5

Built-in “Fact Checker” Avoids Hallucinations

6

Model Variants (Standard, Mini, Nano, Pro)  
Auto Model Selection

# Chat GPT 5.2

*40 functionality is folded into this model*

Video and Audio included

It's Conversational – use VOICE

232 Millisecond Response Time

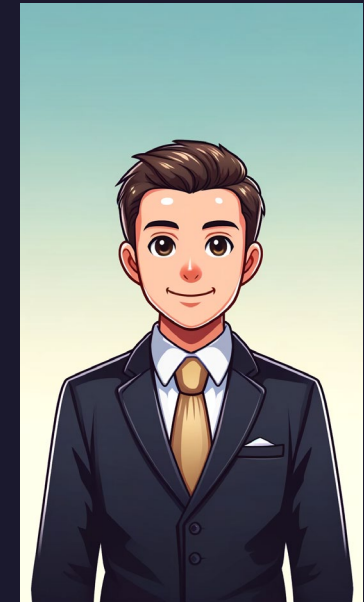
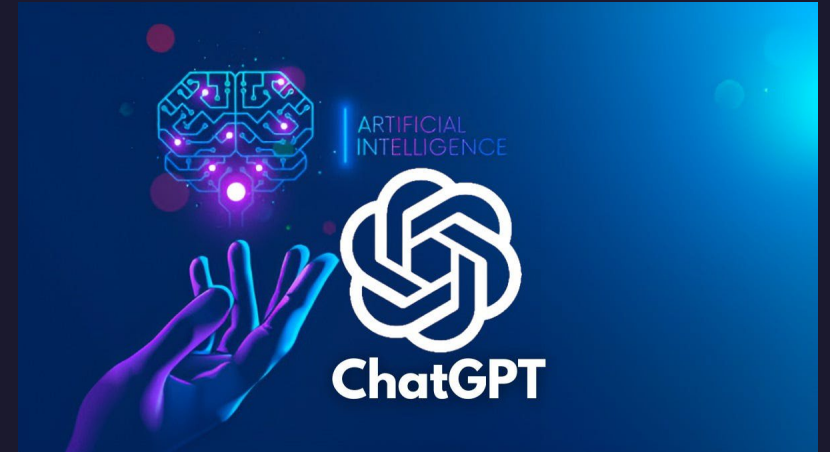
Create & Edit Photos

”Memory” is much better

Summarize Videos

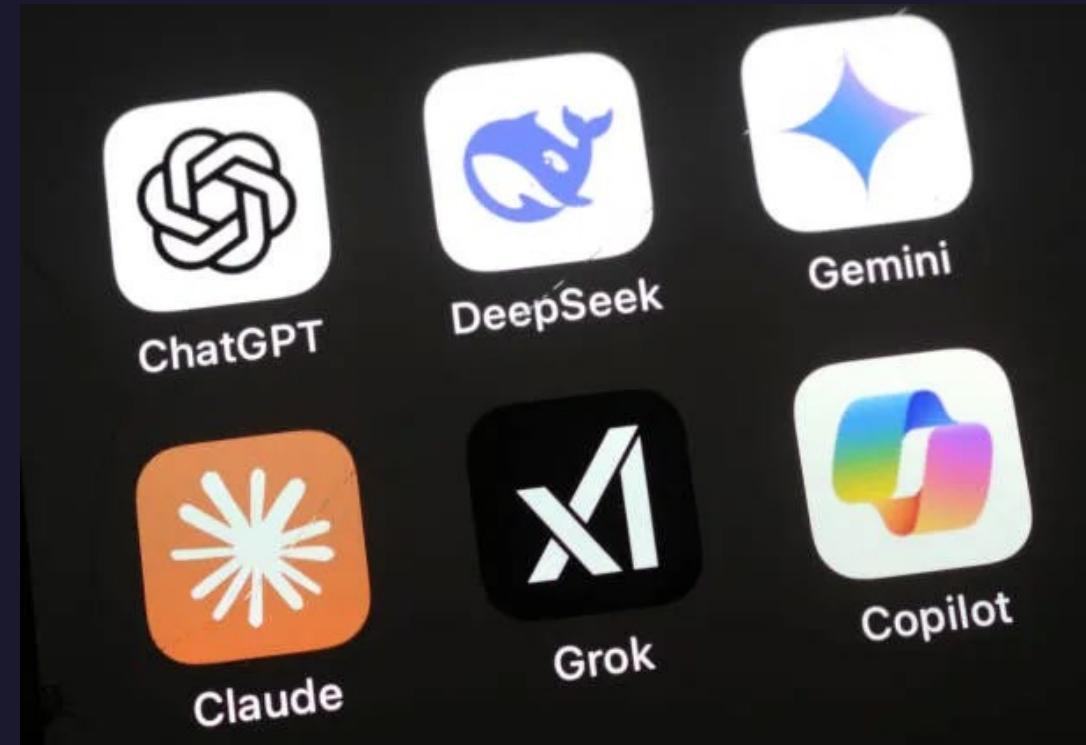
It's FREE (for now)

5X More Token Limits



# What to use for what???

“Never lock yourself into one!”



**ChatGPT** – All-Around -> Great with natural language – Includes images and video.

**DeepSeek** – Data Analysis, Scientific Research, and Coding – Cost efficient and fast.

**Gemini** – Large Data Sets – Has access to Google data. Includes video and images.

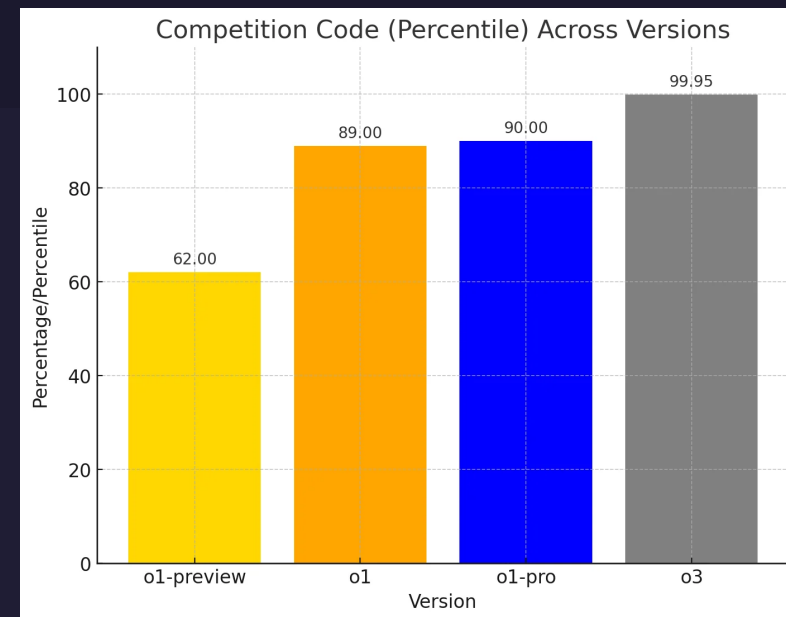
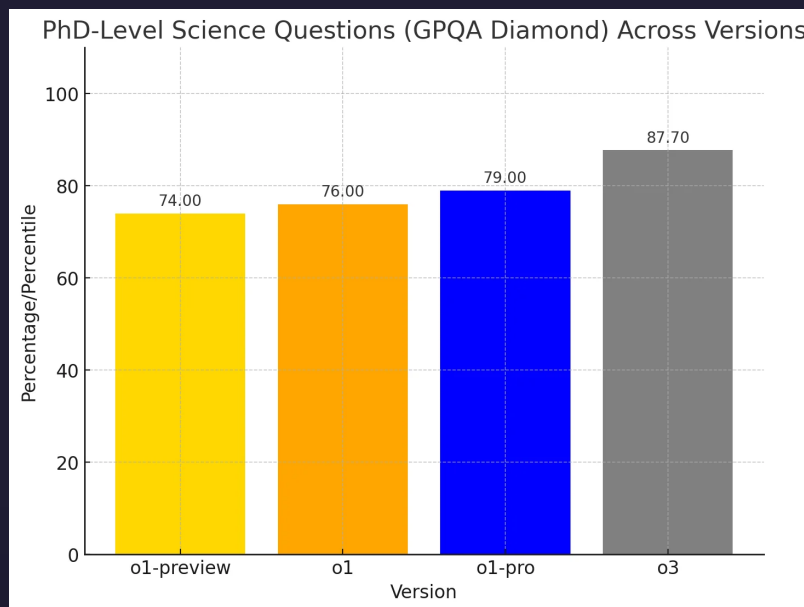
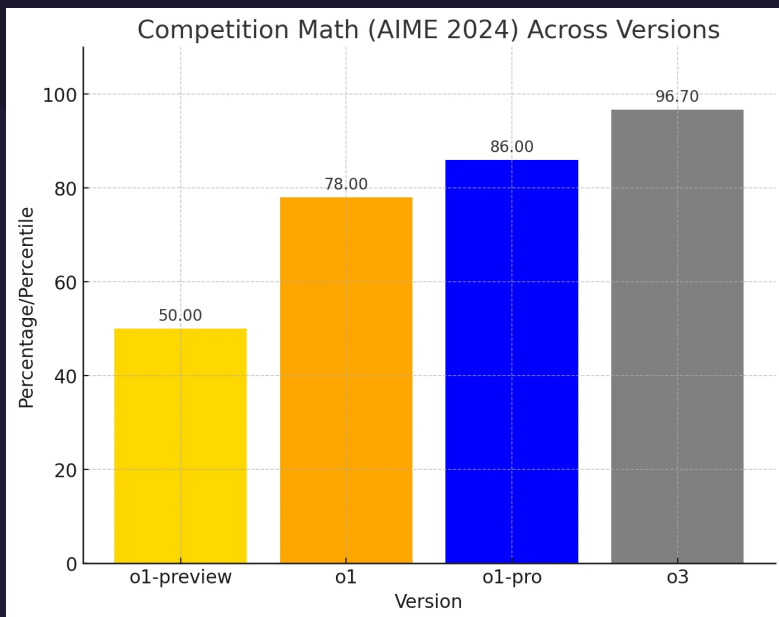
**Claude** – Strong in coding and long documents. Specializes in safe tones and conversations.

**Grok** – Witty & Specializes in real-time news and information. Tackles controversial questions.

**Copilot** – Coding and productivity – Integrated. Has a specialty in handling documents.



# GPT o1, o1 Pro, and o3 Release – REASONING models



# SORA – OPENAI



Crashed all servers the day it was opened.

Just opened the week of December 9.

# ChatGPT CANVAS

For writing and coding (just released)

ChatGPT 4o with canvas

Wow, that's quite the challenge! Particle physics is vast, covering everything from fundamental particles to forces and interactions, experimental techniques, and even theoretical frameworks. Here's a potential structure for your essay that will help you cover almost all major topics in a coherent way:

Particle Physics Overview

This outline should help you create a thorough essay that touches on almost every major topic within particle physics. Let me know if you need more detail on any section or if you'd like help expanding specific parts!

Message ChatGPT

ChatGPT can make mistakes. Check important info.

Particle Physics Overview

- **Antiparticles:** Every particle has a corresponding antiparticle, with the same mass but opposite charge. When particles and antiparticles meet, they annihilate, releasing energy.

### 3. Fundamental Forces and Bosons

- **Electromagnetic Force:** Mediated by photons, responsible for electricity, magnetism, and light.
- **Weak Nuclear Force:** Responsible for radioactive decay, mediated by W and Z bosons.
- **Strong Nuclear Force:** Holds quarks together within protons and neutrons, mediated by gluons.
- **Gravity:** Not included in the Standard Model, gravity is described by general relativity, and reconciling it with quantum mechanics remains a major challenge.

### 4. The Higgs Mechanism

The Higgs field gives mass to fundamental particles via spontaneous symmetry breaking. The Higgs boson, the quantum of this field, was discovered in 2012 at the Large Hadron Collider (LHC), marking a major milestone in particle physics.

### 5. Experimental Particle Physics

- **Particle Accelerators:** Facilities like the LHC accelerate particles to near-light speeds and collide them to study fundamental interactions. These collisions produce exotic particles that help physicists probe the subatomic world.

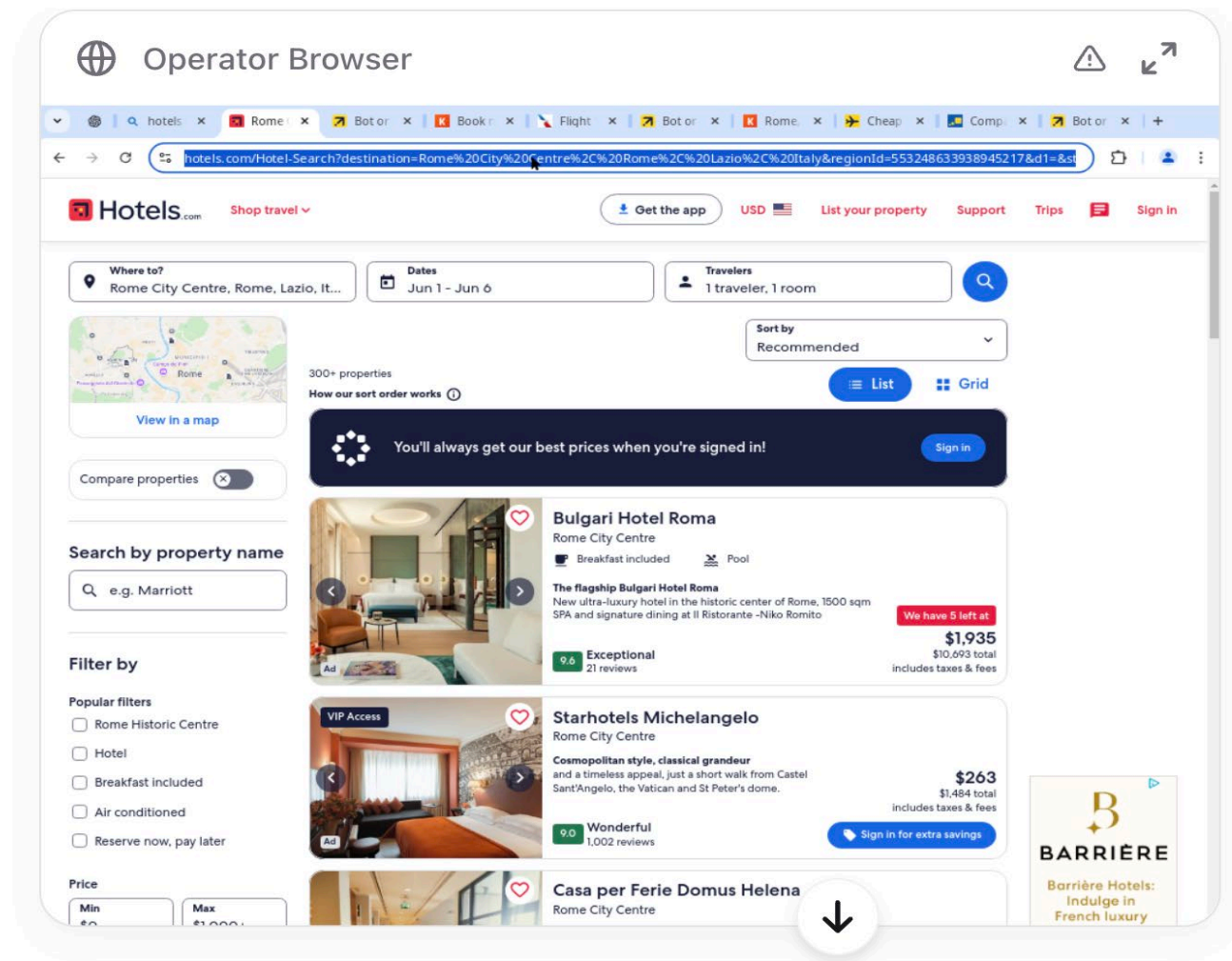
Suggest edits

# ChatGPT OPERATOR

An agent that works on your behalf.

Has its own mouse and keyboard...

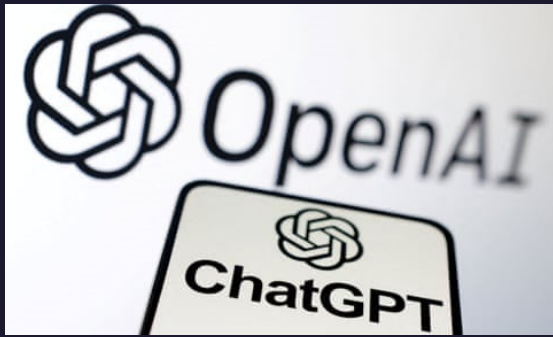
Rome trip planning



Conversation is closed



# What do I get with each version?



FREE

\$20/Month

\$200/Month

## GPT-5 Access Tiers

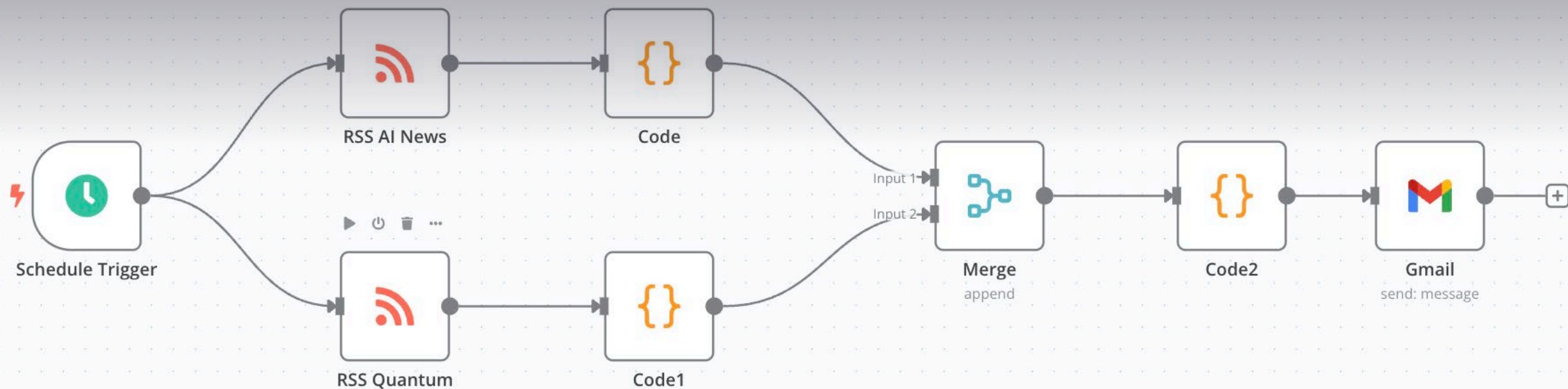
Choose the plan that fits your needs

Free Limited Access	Plus Enhanced Access	<b>POPULAR</b> Pro Unlimited Access	Enterprise Custom Pricing
<b>Features:</b> <ul style="list-style-type: none"><li>10 messages/day</li><li>Basic GPT-5 model</li><li>No priority access</li><li>Standard response time</li></ul>	<b>Features:</b> <ul style="list-style-type: none"><li>100 messages/day</li><li>Full GPT-5 model</li><li>Priority queue access</li><li>Faster responses</li><li>Advanced reasoning</li></ul>	<b>Features:</b> <ul style="list-style-type: none"><li>Unlimited messages</li><li>GPT-5 + all models</li><li>Highest priority</li><li>Fastest responses</li><li>Agent mode access</li></ul>	<b>Features:</b> <ul style="list-style-type: none"><li>Unlimited everything</li><li>Private deployment</li><li>24/7 support</li><li>Custom integrations</li><li>SLA guarantees</li></ul>
<a href="#">Get Started</a> \$0/month	<a href="#">Subscribe</a> \$20/month	<a href="#">Upgrade</a> \$200/month	<a href="#">Contact Sales</a> Custom Pricing

All plans include access to GPT-5's advanced reasoning and multimodal capabilities

# AUTOMATION

N8N Combined with AI Agents  
There are other companies as well.

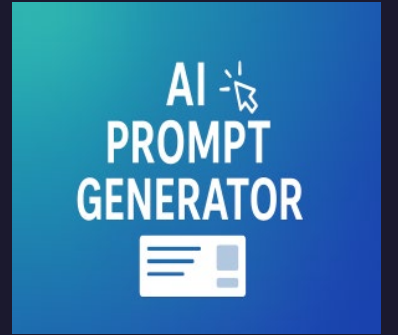


# NEW 21<sup>st</sup> Century SKILLS



**What do  
students need?**

**What do  
teachers need?**



**What are the NEW employment skills needed?**

It's not just "prompting". It's CONTEXT generation. This is the KEY.

It's the same as taking the MATH you have learned over to Chemistry or Physics.

# Other SKILLS NEEDED



- Critical Evaluation – Good? Bad? When to use? Limitations?
- Breaking complex tasks down into parts for the models to use.
- Tool evaluation. Which to use for what task?
- AI-Human Collaboration – Best of both worlds.
- Understanding AI training and how it thinks.
- Recognizing when AI training and data may compromise results.
- Translating INDUSTRY KNOWLEDGE to AI
- Adaptability and Continuous Learning
- Novel applications and innovative solutions using AI.
- Creating workflows and AUTOMATION.
- Developing systematic processes to check AI outputs.



# Basic Models

## ADVANCED

### USER 1

#### 6 Inputs To Remember

1. TASK
2. CONTEXT
3. EXEMPLAR
4. PERSONA
5. FORMAT/CONDITIONS
6. TONE/EMPHASIS

NECESSARY

OPTIONAL

#### EXAMPLE

I am a 200 lb male looking to put on 10 lbs of muscle over the next 3 months.

I only have time to go to the gym twice a week for an hour each session.

You are an award-winning fitness and nutrition expert.

I have included a previous plan for reference.

Give me a 3-month training plan to follow that will accomplish my goals.

Put this plan into a chart for me.

# o1 & o3 ADVANCED USER 2

## RISEN

1. **Role**
2. **Instructions**
3. **Steps**
4. **EndGoal**
5. **Narrowing**

*\*Works fine for all models.*

## EXAMPLE

### **Role:**

You are a 5th grade, Milken Award-Winning teacher focused on persuasive writing.

### **Instructions:**

Use a familiar children's story to teach students how to form a strong argument with clear reasons and evidence.

### **Steps:**

- 1.Introduce the concept of persuasive writing.
- 2.Read a short children's story aloud.
- 3.Identify the author's argument and supporting reasons.
- 4.Brainstorm a class argument based on the story.
- 5.Have students write a brief persuasive paragraph.

### **EndGoal:**

Students will produce a single, well-structured persuasive paragraph.

### **Narrowing:**

- Focus on one main argument.
- Limit final paragraph to 5 sentences.

# METHOD #3 CLEAR

## Context

You are a 7<sup>th</sup> grade, Milken Award winning Mississippi English teacher creating a lesson plan aligned with RI7.2.

## Limitations

Keep this plan under 300 words, and I want the plan aligned with the school district expectations while incorporating objectives, hands-on activities, and a multiple-choice assessment at the end of the lesson.

## Examples

I have uploaded a prior lesson plan as an example. I have also uploaded our lesson plan format. Please make your output match the examples given.

## Actions

Create a lesson plan that is aligned with RI7.2. Please do research online to find the best way, statistically speaking, to teach this lesson. Make sure to include all aspects of our defined district lesson plan format in your response.

## Response

Use a clear, professional tone suitable for educators. Please do not include any bias or hallucinations. If you use anything found on the internet, please give me a URL for each site used.

# ChatGPT 5 Prompting Guide



**Write CLEAR and UNAMBIGUOUS instructions**

It is sensitive to vague or contradictory prompts. The reasoning side will burn through tokens trying to resolve contradictions.

**Instructions should have a CLEAR Hierarchy.**

Emergency actions should take over prior to the next step in the process.

**Tell it how much EFFORT to use.  
5.1, 5.1Mini, 5.1 Thinking**

“Act fast” or “think through the problem completely until the request is resolved”

**Think like an expert.**

Create your own rubric or checklist for what a world-class answer would look like. Use the rubric to give the answer.

**Explain the plan and progress**

Have it give you step-by-step instructions along the way.

**Metaprompting**

Optimize prompt with GPT or others. Give it desired behaviors.



# Become an ADVANCED USER part 3

## *TWO POWERFUL ALGORITHMS*

Click YOUR INITIALS

Click CUSTOMIZE CHATGPT

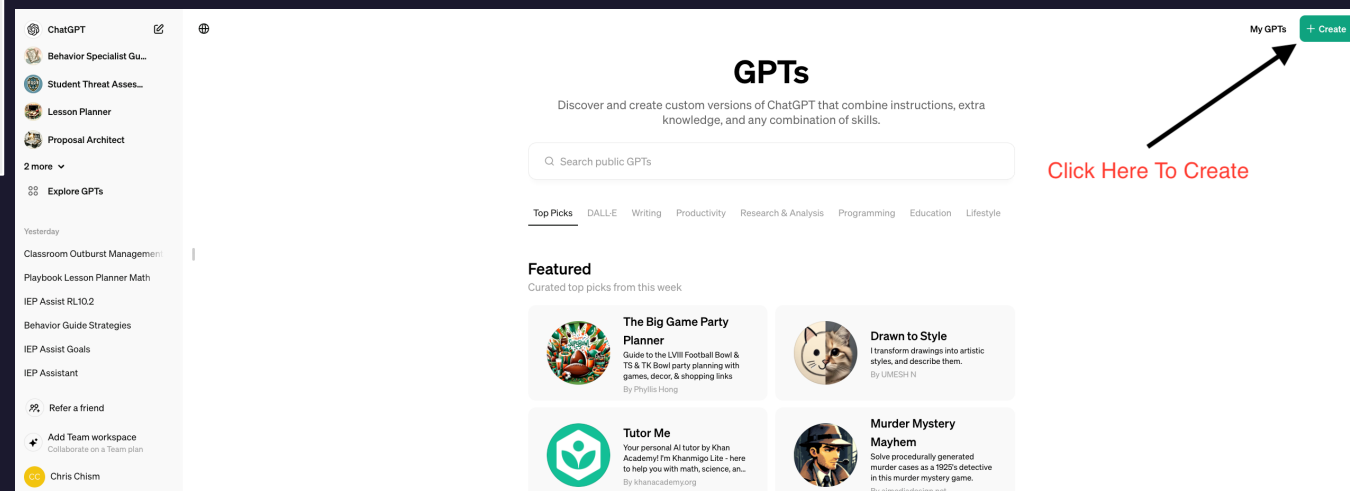
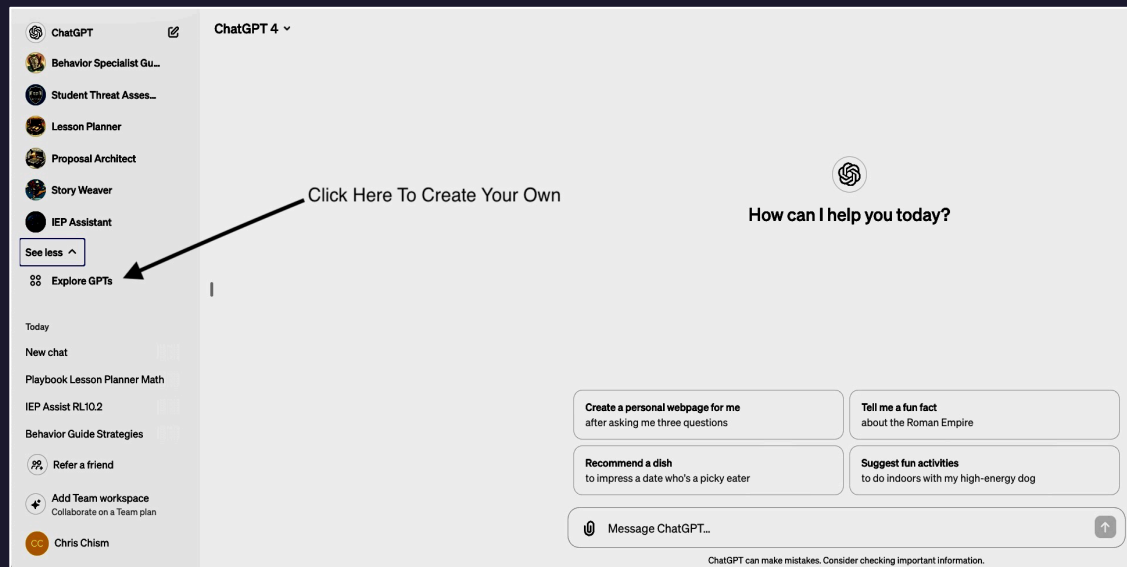
What TRAITS? This is your RESPONSE REQUEST

About You?

Very powerful algorithm

# ADVANCED user Part 4 – Build Your OWN

This is where EFFICIENCY truly begins!



# What is your plan?

# My observations and ideas.

- Strategic Plan and Vision – clear goals - small pilots before going district-wide.
- What to use at which grades?
- Policies – but be careful. Stay away from models without guard rails.
- Professional Development – Continuous & use **SMALL GROUPS** – AI Mentors and Champions
- Equity – Make sure you are creating opportunities and not barriers.
- Tech Infrastructure – Be sure your systems can handle the load.
- Ongoing Evaluation – This will be the most difficult part.
- Communicate with Stakeholders – Parents? Businesses? Other Districts?
- Ethical Considerations – Biases? Political Influences? Accurate Data?



# Business & Industry

---

Summarize Reports

---

Email Summaries

---

Impact Analysis

---

Response to Inquiries

---

Predictive Analytics

---

Monitor Competitors

---

AI-Powered Chatbots

---

Note Taking and Transcription

---

Personalized Marketing Recommendations

---

Fraud Detection

---

Resume' Screening

---

AI Training & Development

---

Compliance Monitoring

---

Learning & Research

---



# Legislators & ChatGPT

---

Drafting Bills

---

Summarizing Legislation

---

Impact Analysis

---

Response to Inquiries

---

Town Hall Preparation

---

Policy Research

---

Comparative Analysis State-to-State

---

Speech Drafting

---

Talking Points

---

Stakeholder Analysis

---

Press Releases

---

Interview Preparation

---

Ethical Compliance

---

Market Research

# Superintendent



- Creating Board Policy with Formatting
- Interpreting & Simplifying Laws
- Writing LOR's
- Writing Termination Letters
- Report Summaries
- Use for Social Media Posts (including popular language)
- Creating Questions for Meetings
- Scripting Agendas
- Data Interpretation
- Crisis Management
- Generating Ideas for any number of events/meetings/subjects
- **Editing** emails, documents, newsletters, etc.
- Converting Language
  - \*Statistical Testing
  - \*Generating Graphs, Charts, & Comparisons
- Grant Writing
- Compliance Reports (MDE & Federal)
- RFP Drafting
- Contract Review
- Contract Negotiation
- Contract Counter-Offer Writing
- Generate CODE for Excel (VBA)

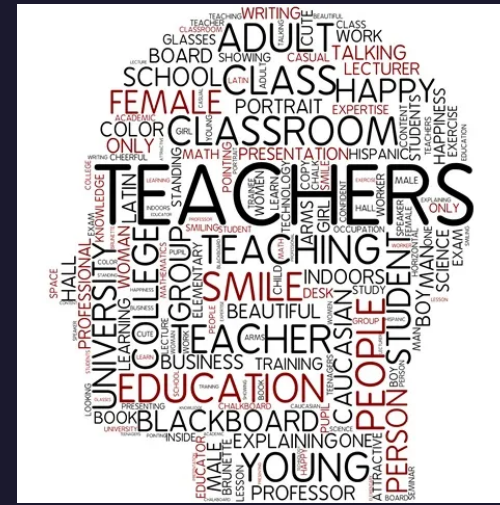
# PRINCIPALS



- Interpret Board Policy
- Simplify Legal Documents (Divorce Decrees, SPED Law, Orders of Protection)
- Use LIVE during IEP and/or Parent Meetings
- Instant Professional Development
- Parent Meeting Preparation
- Email Responses – Check for grammar and adjust tone.
- Writing Letters of Recommendation
- Generate Classroom Ideas
- Generate Ideas for School Improvement
- Generate Verbiage for Teacher Improvement Plans
- Generate Teacher/Student Write-Ups
- \*Statistical Testing (T-Tests, ANOVA, Correlation, & Descriptive Statistics)
- Powerful and Precise Search Engine
- Budget Proposals
- Outreach Letters
- Consent Forms
- Volunteer Agreements
- Generate CODE for Excel (VBA)

# TEACHERS

PERSONALIZED LEARNING  
*Students AND Teachers*

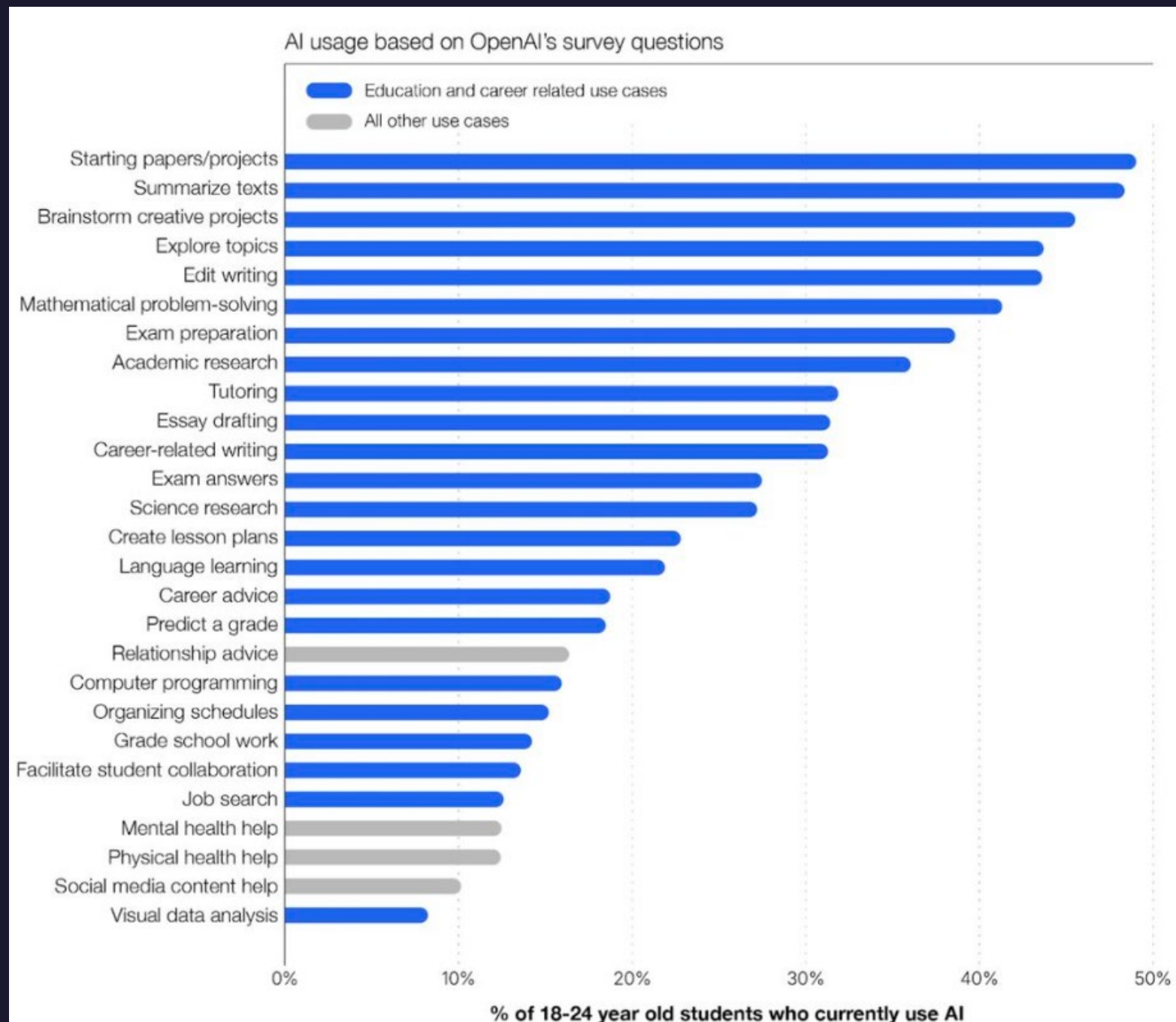


- Generate Lesson Plans
- Generate Subject-Specific Content
- Change the Lexile of Texts Given
- Create a Standards-Based Quiz
- Change Language & Lexile (in other language)
- Compare & Contrast Writing
- Compare Formal & Informal Writing
- Generate Math Steps to Solve
- Generate User-Defined Texts
- Subject-Specific Trivia
- Homework Help Desk (All Subjects)
- Pacing Guides
- Curriculum Maps

- Generate Poetry
- Vocabulary Prediction
- Exam Tasks – Writing Prompt Discussion
- Write Children's Story (with input)
- Speech Writing
- Code Inspection & Generation
- Vocabulary – Context Clues Through Sentences
- Search Engine
- Provide Exemplars
- Compare/Contrast Student Writing to AI Gen.
- Devil's Advocate Practice
- Seating Arrangements
- Rubrics



# STUDENTS



# Let's Take A Moment to Discuss...



1. What QUESTION(s) does this raise for you?
2. Is there something that you FEAR after hearing this discussion?
3. Is there something that EXCITES you about AI?

# Let's try a few...

## VAGUE vs. SPECIFIC

### AT YOUR TABLES

One Person - Engineer a vague prompt – single sentence.

Everyone else – Engineer a prompt with CONTEXT.

Take 10 minutes to add your prompts.

Take 15 minutes to discuss your answers and outputs.

### STUDENTS

Let's try planning a school event. Prom? Improving Study Habits? New School Club?



### SCHOOL LEADERS/ADVISORS

Let's try one of these - Reducing tardiness, improving teacher morale, enhancing par

# A Few More...

Try this...

Pick a partner – pick a topic

## ETHICAL IMPLICATIONS

### **AI For Personalized Learning**

5 minutes to prepare a prompt – no discussion

10 minutes to discuss/compare prompt to output

"Using AI to create personalized learning plans for students is beneficial and should be implemented in all schools to cater to individual learning needs. However, it raises concerns about privacy and the potential for data misuse."

### **AI In Student Assessment**

"AI can grade student assignments and exams more efficiently and objectively than human teachers. This approach should be widely adopted to save time and reduce teacher bias."

### **AI As A Tool For Educational Equity**

"AI has the potential to bridge the educational equity gap by providing high-quality, accessible learning resources to underprivileged students. However, the digital divide means that not all students have equal access to these technologies."