



# Is AI Ready to Take Over the World?

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DAVID WESST //

PRAIRIE DEV CON 2023  
[REGINA]

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**Community Sponsor**



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YES

(BECAUSE IT ALREADY HAS)

A solid orange horizontal bar spanning the width of the slide at the bottom.



# Topics

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Defining AI in the Mainstream

Industry and Application AI Readiness

Potential Risks

Potential Benefits

Best Practices for Adopting AI

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# AI is a Human-Enhancer not a Human Replacement

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AI is coming, whether you want it or not.

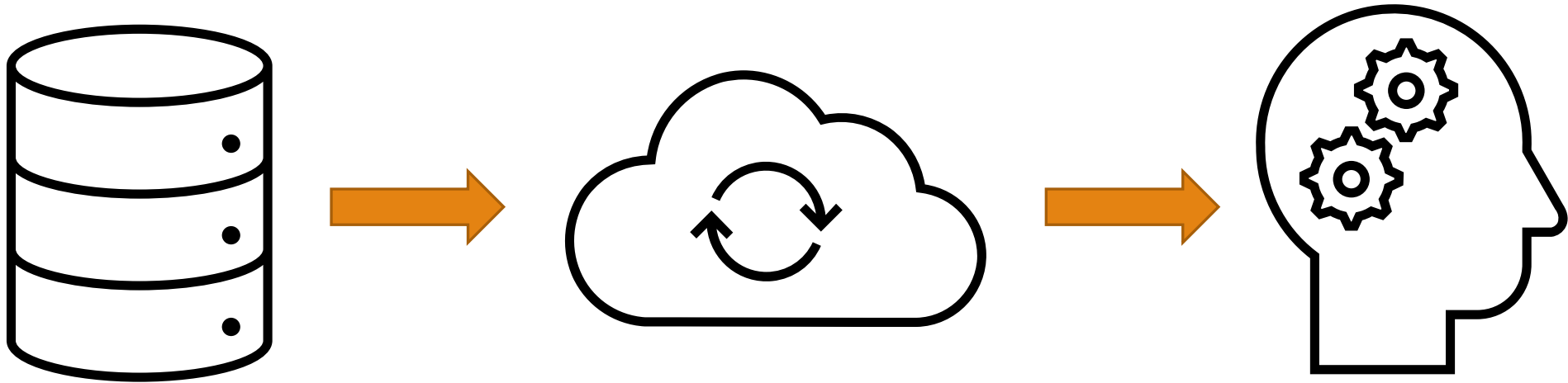


# Defining AI in the Mainstream

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# What is AI?

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# What is AI: Examples

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- Natural Language Processing
- Recognizers
- Recommendation Engines
- Generative AI
  - Large Language Models
  - Image Generation

# AI IS NOT “SMART”

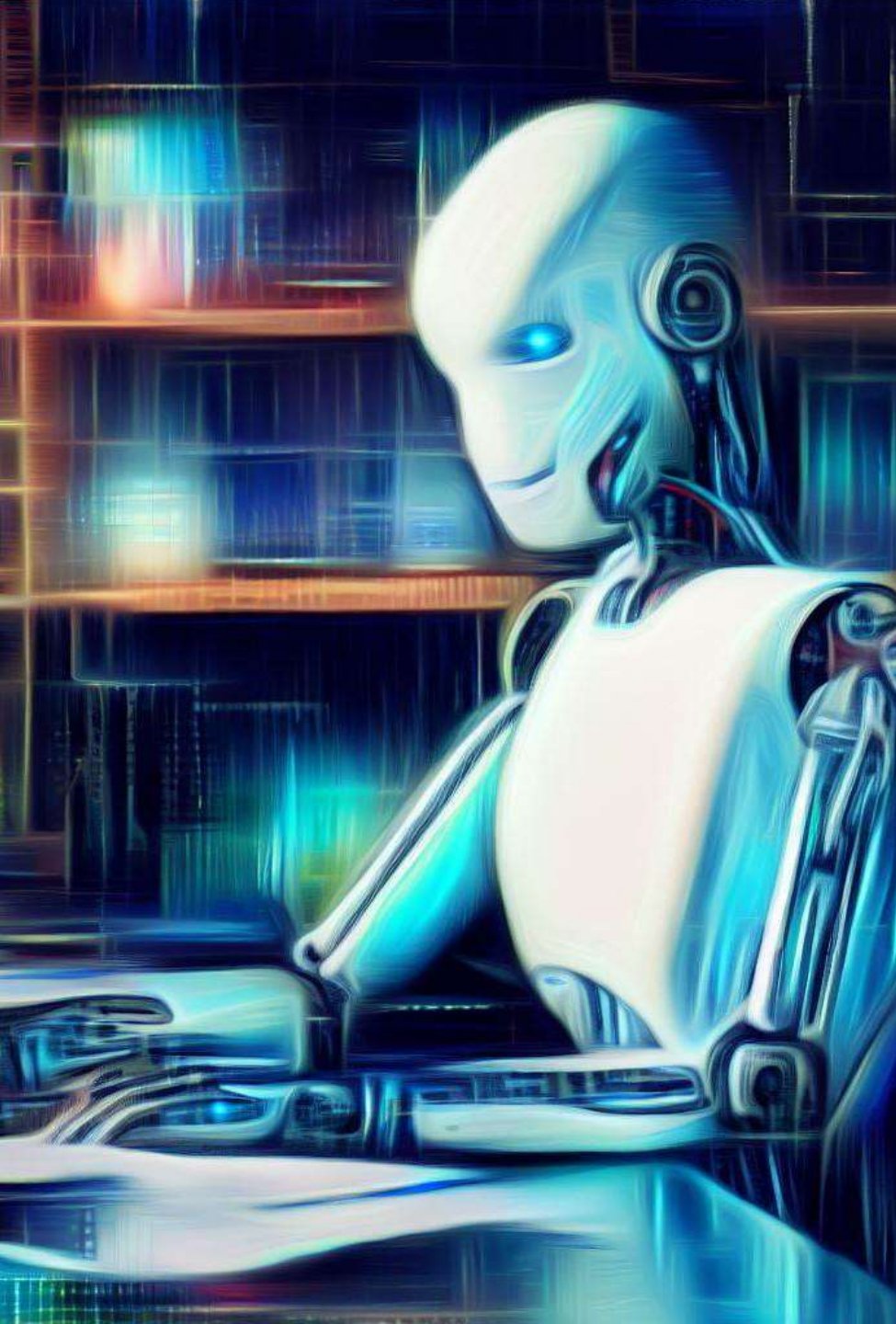
... BUT IT

SURE

FEELS

LIKE IT





# AGI vs AI

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AI (Artificial Intelligence) we are talking about today has a ***narrow*** focus

AGI (Artificial General Intelligence) is a ***broad*** focus



# Industry and Application AI Readiness

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# Finance

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# Healthcare

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# DEMO

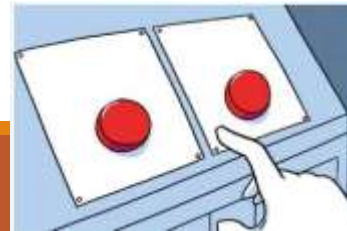
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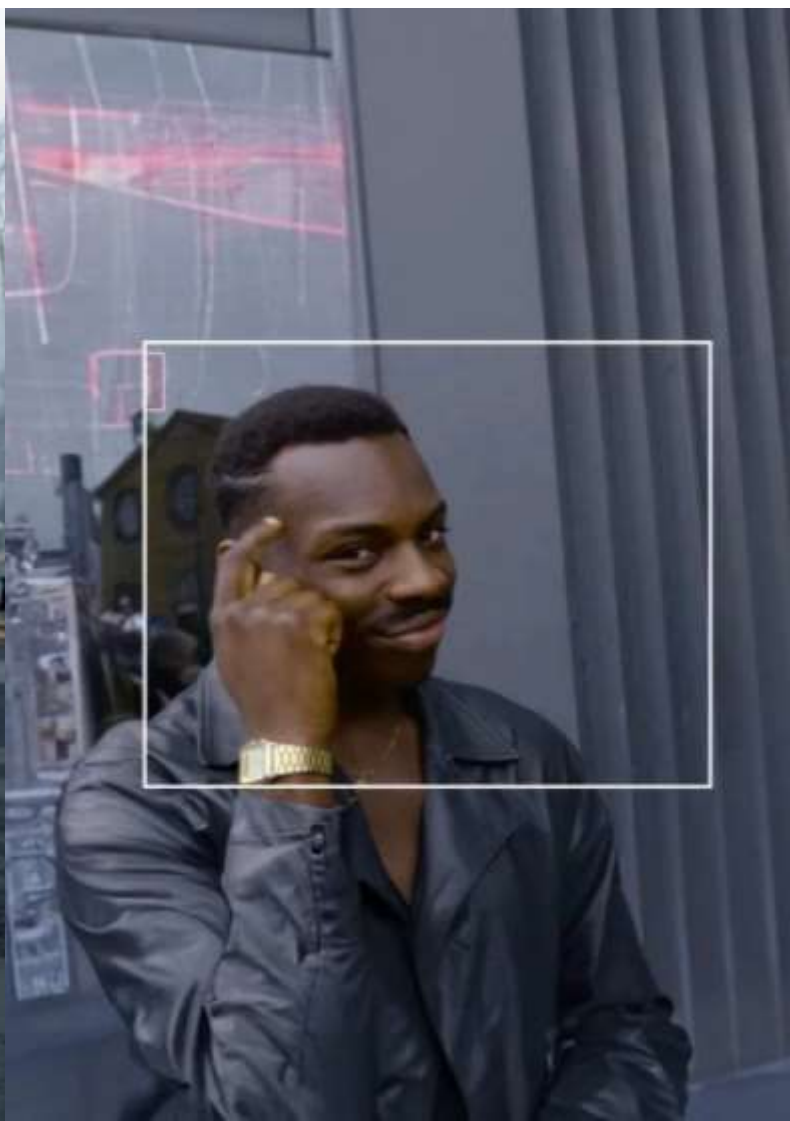


**ON AIR**

Media Production

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[https://www.reddit.com/r/StableDiffusion/comments/141hg9x/controlnet\\_for\\_qr\\_code/](https://www.reddit.com/r/StableDiffusion/comments/141hg9x/controlnet_for_qr_code/)



WatchMeForever ✓

NOTHING, FOREVER - S2 v1.4 | AI generated, always on, always weird | what's the weather like today?

Just Chatting

GPT4

AI

ProcedurallyGenerated

ChatGPT

OpenAI

ASMR

Comedy

Marathon

AlwaysOn

Endless

React

Follow

Subscribe

74

40:06:02

⬆ ⋮



Community Notes

Client: CCRCA - Cross Creek Ranch C.A.

Section: All

Search

Show: ☒ Active ☐ Inactive ☐ All

Active	Comcode	Section	Headline	View	Expiration	Last Change	By
✓	CCRCA	Amenities	Amenities - Community Room - Kitchen Inspection Permit			04/11/23	Gonzalez
✓	CCRCA	Amenities	Amenities - Community Room - Usage			05/16/23	Moore1
✓	CCRCA	Amenities	Amenities - Fitness Center			05/16/23	Moore1
✓	CCRCA	Amenities	Amenities - Fitness Center Hours			01/27/23	Moore1
✓	CCRCA	Amenities	Amenities - Fitness Center WiFi Networks and Passwords			08/27/21	Tate1
✓	CCRCA	Amenities	Amenities - Flewellen Creek Park			04/11/23	Gonzalez
✓	CCRCA	Amenities	Amenities - Flewellen Creek Pool			05/31/23	Craig
✓	CCRCA	Amenities	Amenities - Greenthread Park			05/31/23	Craig
✓	CCRCA	Amenities	Amenities - Hike & Bike Trails			08/27/21	Tate1
✓	CCRCA	Amenities	Amenities - Italian Maid Cafe			04/11/23	Gonzalez
✓	CCRCA	Amenities	Amenities - Online Reservation System			08/08/22	Moore1
✓	CCRCA	Amenities	Amenities - Park & Playgrounds			04/11/23	Gonzalez
✓	CCRCA	Amenities	Amenities - Pine Park - Pickleball Court			04/11/23	Gonzalez
✓	CCRCA	Amenities	Amenities - Pool Rentals			01/04/23	Moore1
✓	CCRCA	Amenities	Amenities - Soccer Field			10/13/19	Manuszak
✓	CCRCA	Amenities	Amenities - Splash Pad at Adventure Island			03/07/23	Moore1
✓	CCRCA	Amenities	Amenities - Tennis Courts			04/14/23	Moore1
✓	CCRCA	Amenities	Amenities - The Hill & Lakes			08/27/21	Tate1
✓	CCRCA	Amenities	Amenities - The Hill & Lakes (Fishing)			08/27/21	Tate1

If you are interested in renting the pool, please call or email the pool management company at [REDACTED] or [REDACTED] to make your reservations. Note: Flewellen Creek Pool is not open for pool party reservations.

Pool parties may be booked by homeowners/renters who are at least 21 years of age and who are in good standing with their association. Parties that will have guests less than 21 years of age must have 1 adult present for every 10 party guests. If you are interested in renting the pool, please call or email the pool management company at [REDACTED] or [REDACTED] to make your reservations. Note: Flewellen Creek Pool is not open for pool party reservations.

**POOL RENTALS**

1. Parties are not permitted during pool hours.

Was sind die Öffnungszeiten der Schwimmbäder?

Searching for **pool hours**

Die Schwimmbadzeiten variieren je nach Ort. Greenthread Park Pool ist derzeit aufgrund von Renovierungsarbeiten geschlossen. Die vollständigen Öffnungszeiten für Juni und Juli 2023 können im My Cross Creek Ranch-App oder auf der Website unter [www.mycrosscreekranch.com](http://www.mycrosscreekranch.com) eingesehen werden. An Feiertagen wie dem Labor Day gibt es spezielle Öffnungszeiten. Weitere Details zu Öffnungszeiten und Poolvermietungen sind in den entsprechenden Dokumenten zu finden.

**Source Documents:**

2023 June & July Swimming Pool Hours \*\*\* NewsFlash - Labor Day Pool Hours

Greenthread Park Pool Closure Amenities - Flewellen Creek Pool

Amenities - Splash Pad at Adventure Island

**Suggested Follow-Up Questions:**

Welche speziellen Öffnungszeiten gelten an Feiertagen?

Was sind die Öffnungszeiten des Splash Pad im Adventure Island?

Kann der Pool gemietet werden? Sind Schwimmkurse erhältlich?

Gibt es Beschränkungen bezüglich der Kapazität der Schwimmbäder?

Clear

Was sind die Öffnungszeiten der Schwimmbäder?

Ask

Add

Edit

Print All Notes

Exit



# Software Development

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Technical preview

# Your AI pair programmer

fetch\_pic.js

push\_to\_git.py

```
1  const fetchNASAPictureOfTheDay =  
2    return fetch('https://api.nasa.gov/planetary/apod?api_key=YOUR_API_KEY')  
3      method: 'GET',  
4      headers: {  
5        'Content-Type': 'application/json',  
6      },  
7    })  
8    .then(response => response.json())  
9    .then(json => {  
10      return json;  
11    });  
12
```



OpenAI



# Example Changes in Software Development

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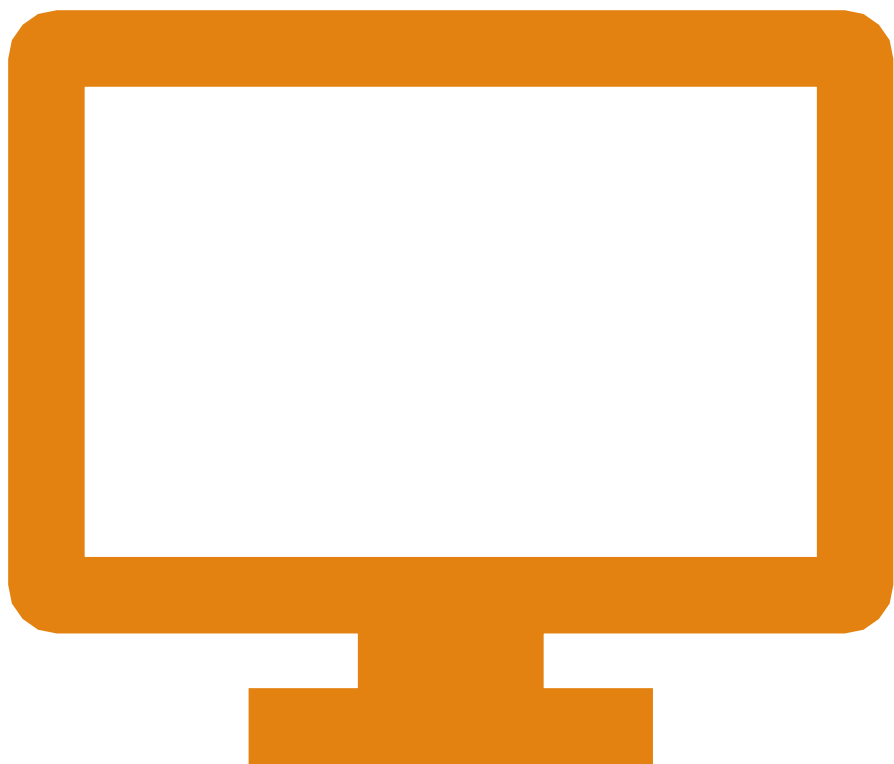
AI-Assisted Testing

Synthetic Data Generation

Code Explanations & Commenting

Code Generation

...



DEMO

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### Microsoft 365 Chat (preview)

Combine the power of AI with your work data and apps to help you unleash creativity, unlock productivity, and uplevel skills.

[Learn more about Microsoft 365 Chat >](#)



### Copilot in Teams

Have more effective meetings, catch up on chats, and bring everything together in Teams.

[Learn more about Copilot in Teams >](#)



### Copilot in Outlook

Start emails quickly, generate a summary, and catch up on long emails easily.

[Learn more about Copilot in Outlook >](#)



### Copilot in Word

Start a draft, add to an existing document, rewrite text, generate a summary, or chat with Copilot.

[Learn more about Copilot in Word >](#)



### Copilot in PowerPoint

Create a new presentation, organize and summarize presentations, and more.

[Learn more about Copilot in PowerPoint >](#)



### Copilot in Excel

Go deeper with data, identify insights, generate formulas, and more.

[Learn more about Copilot in Excel >](#)



### Copilot in OneNote

Summarize your notes, create a to-do list, design a plan, and chat with Copilot.

[Learn more about Copilot in OneNote >](#)



### Copilot in Loop

Plan, brainstorm, create, and collaborate easier to stay in sync.

[Learn more about Copilot in Loop >](#)



# Potential Risks

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# Change Exhaustion

Only 38% of workers in 2022 are willing to support organizational change, compared to 74% in 2016.





# Job Replacement

## Innovation Insight for Generative AI (December 15, 2022)

<https://www.gartner.com/document/mobile/4022272?ref=search&platform=5>

### Use Cases by Industry/Capability

	Industries								Business Capabilities			
	Automotive and Vehicle Manufacturing	Media	Architecture and Engineering	Energy and Utilities	Healthcare Providers	Electronic Product Manufacturing	Manufacturing	Pharmaceutical	Human Resources Management	Information Technology Management	Marketing and Sales	Research and Development
Drug Design								●				
Material Design	●			●		●						●
Chip Design						●						
Synthetic Data	●		●	●	●	●	●	●		●	●	●
Generative Design (Parts)	●		●				●					●
Generative Design (Architecture)			●									
Code Generation										●		
Text Generation		●									●	
Image Generation		●									●	
Video Generation		●							●		●	
Audio Generation		●									●	
Media Content Improvement		●									●	

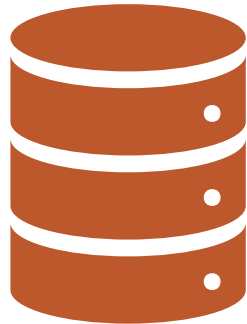
Source: Gartner  
778501\_C



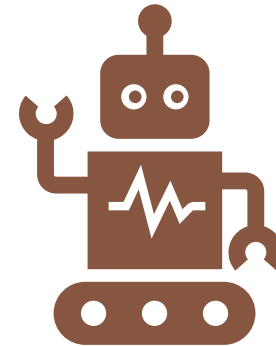
# Ethical Concerns & Misuse

# Security, Privacy, and Legal Concerns

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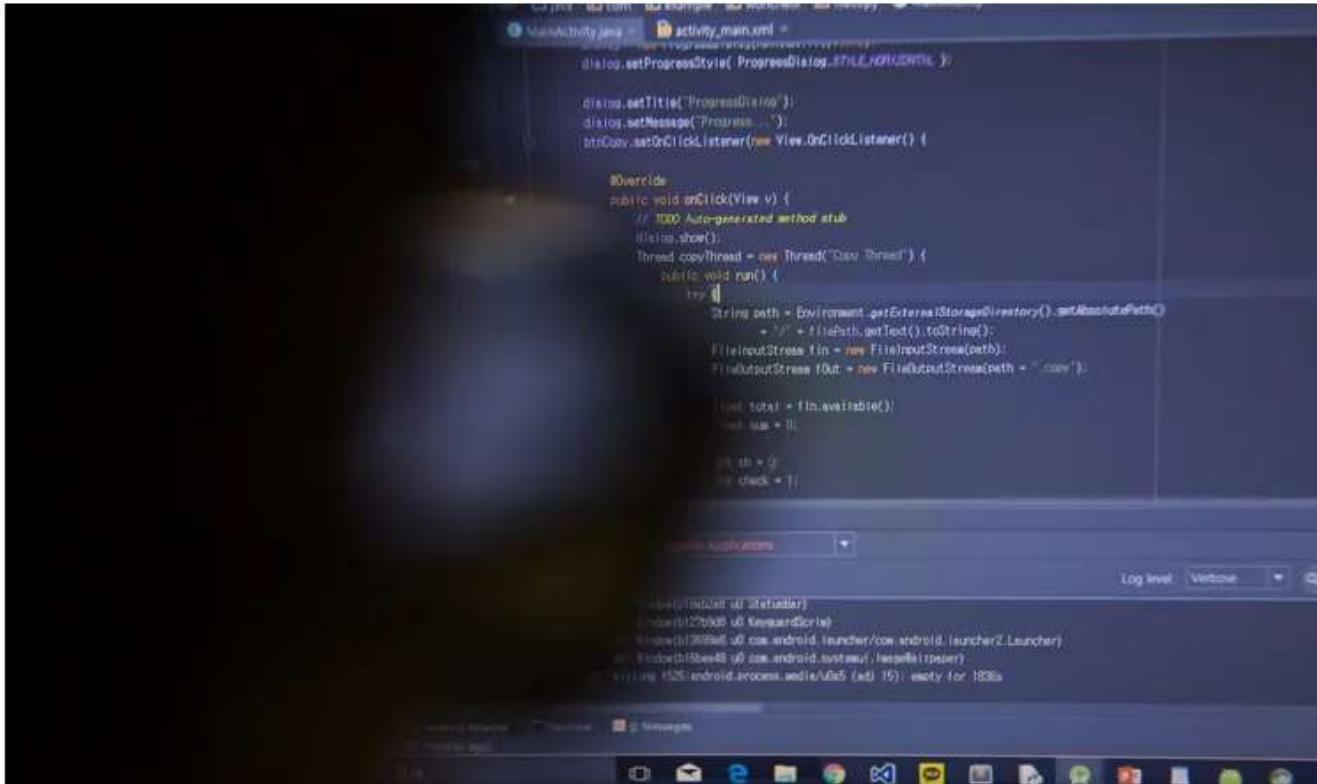
What data was used in training the model?



Does the AI use my prompts to improve its model?



# The lawsuit that could rewrite the rules of AI copyright



/ Microsoft, GitHub, and OpenAI are being sued for allegedly violating copyright law by reproducing open-source code using AI. But the suit could have a huge impact on the wider world of artificial intelligence.

By [James Vincent](#), a senior reporter who has covered AI, robotics, and more for eight years at The Verge.

Nov 8, 2022, 10:09 AM CST | [9 Comments](#) / [9 New](#)

<https://www.theverge.com/2022/11/8/23446821/microsoft-openai-github-copilot-class-action-lawsuit-ai-copyright-violation-training-data>

# Microsoft announces new Copilot Copyright Commitment for customers

Sep 7, 2023 | Brad Smith, Vice Chair and President, Hossein Nowbar, CVP and Chief Legal Officer

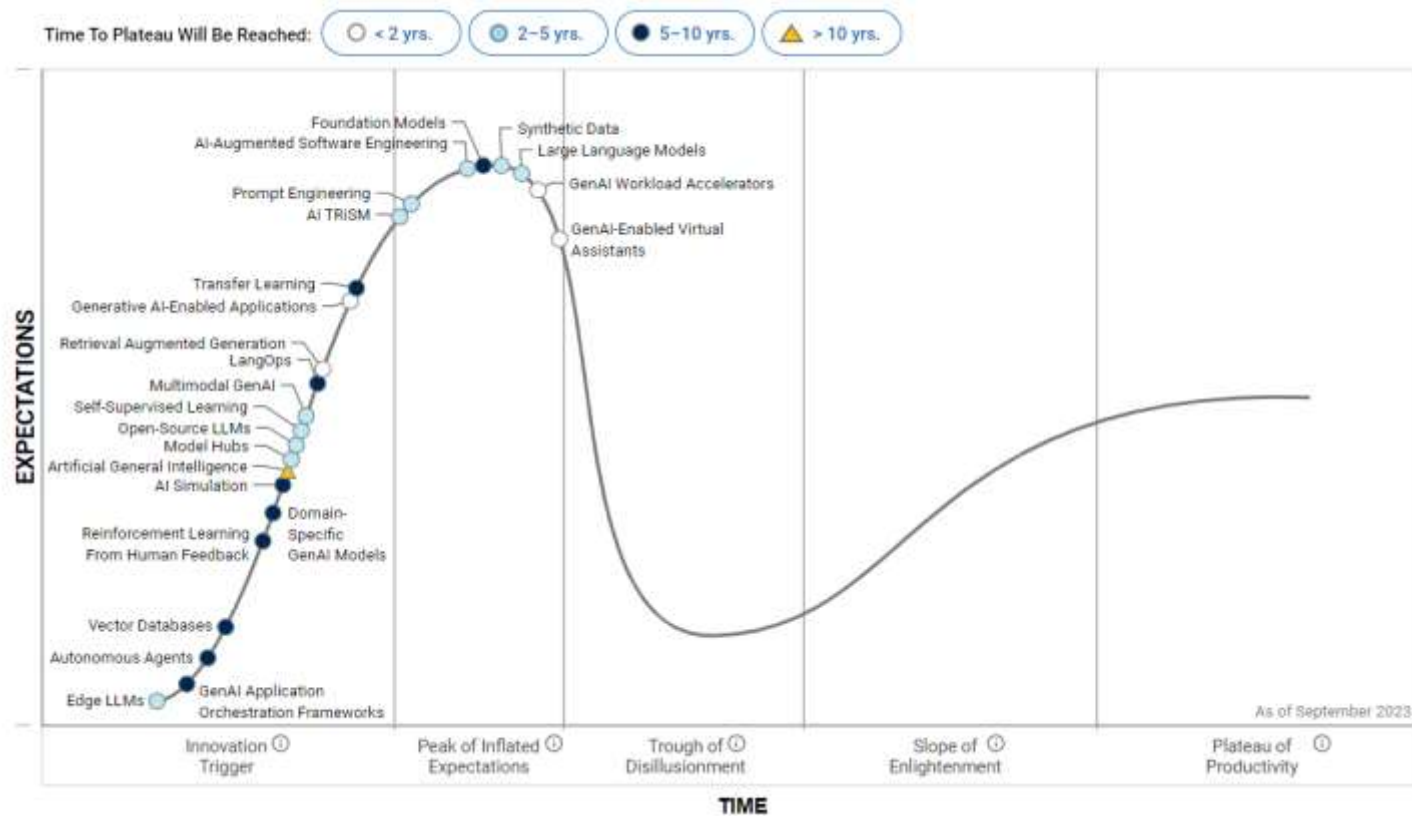




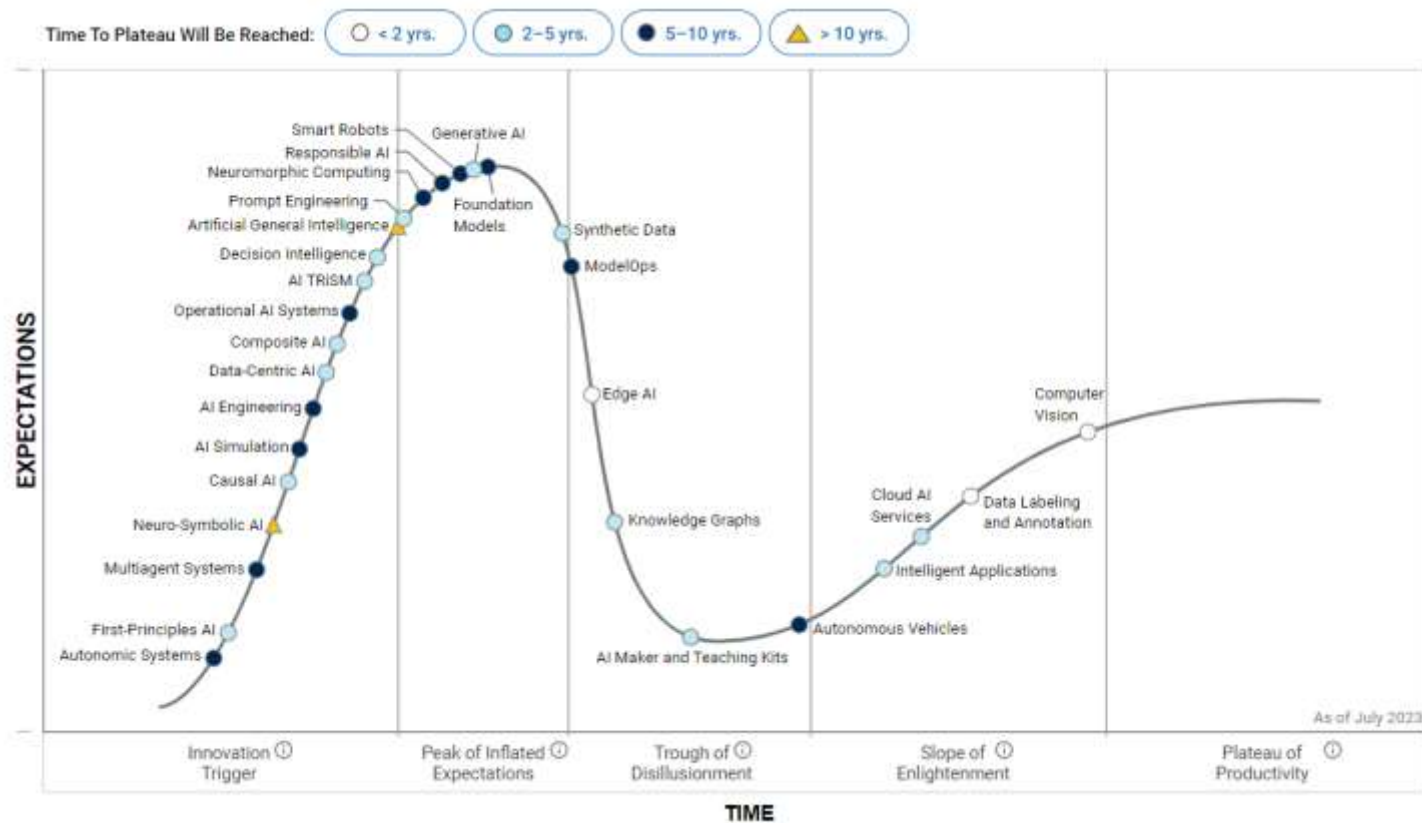


# Lack of Transparency

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# Early Adopter ROI



# Early Adopter ROI



# Potential Benefits

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# Efficiency & Productivity

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“Exposure to ChatGPT increases job satisfaction and self-efficacy and heightens both concern and excitement about automation technologies.”

- Experimental Evidence on the Productivity Effects of Generative Artificial Intelligence, March 2023 (MIT)

# Teaching and Learning

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“A staggering 85% of high school and college students who have availed themselves of both ChatGPT and traditional tutoring sessions during the recent academic year assert that ChatGPT surpasses traditional tutoring in effectiveness as a learning tool.”

<https://venturebeat.com/ai/chatgpt-takes-center-stage-students-ditch-tutors-in-favor-of-ai-powered-learning/>

May 29, 2023 9:33 AM

...and there's  
more!

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Data Analysis &  
Predictive Capabilities

Safety & 24/7  
Operation



# Best Practices for Adopting AI

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# Best Practices For adopting AI

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Having clear goals

Invest in training

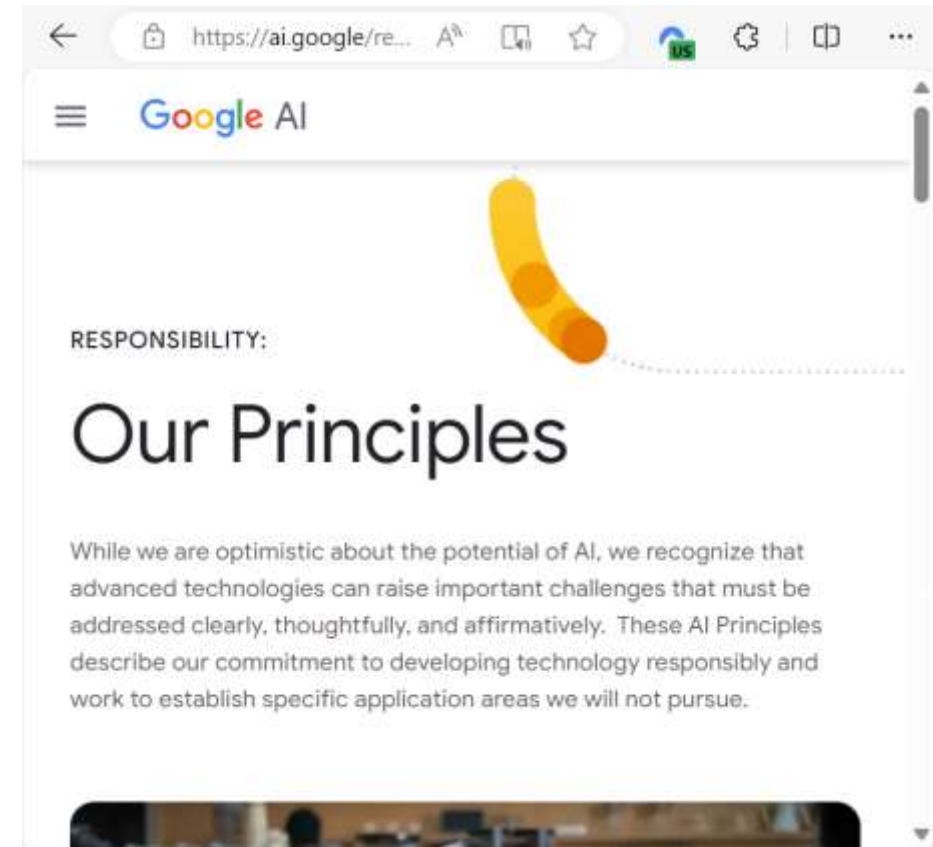
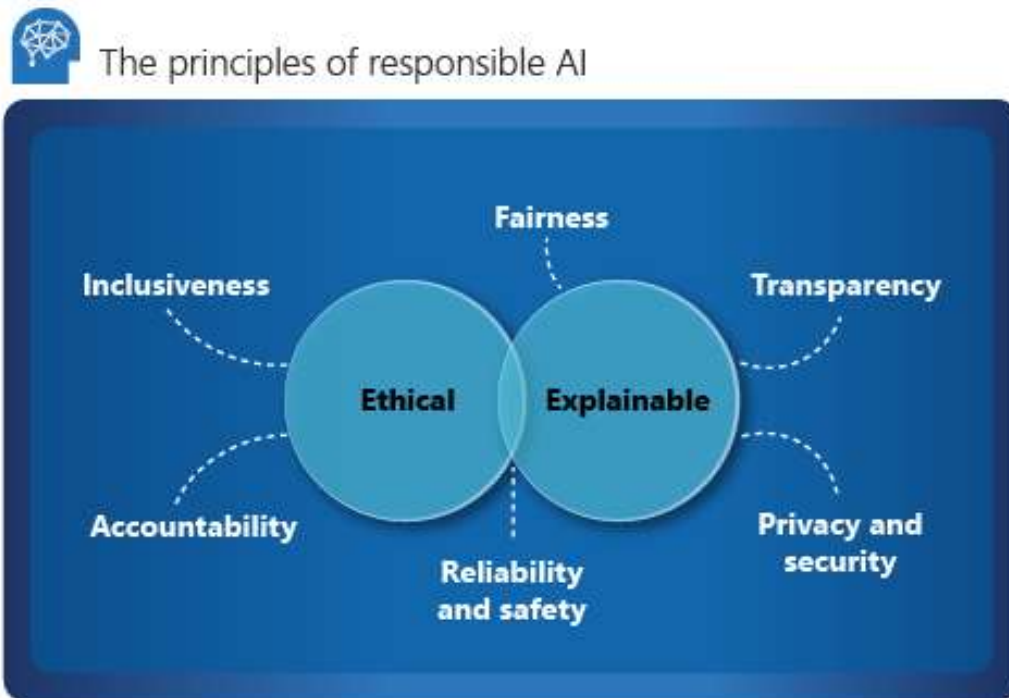
Data management

Start Small (and Learn)

Transparency

Monitor and Evaluate Performance

# Building Responsible AI





# Recap & Takeaways

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# Recap

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Defining AI in the Mainstream

Industry and Application AI  
Readiness

Potential Risks

Potential Benefits

Best Practices for Adopting AI



AI has been present in our lives for years (this is not a revolution, but an evolution)



The potential is great, but so is the risk



Prepare yourself (and staff) with training, policy, and assessment



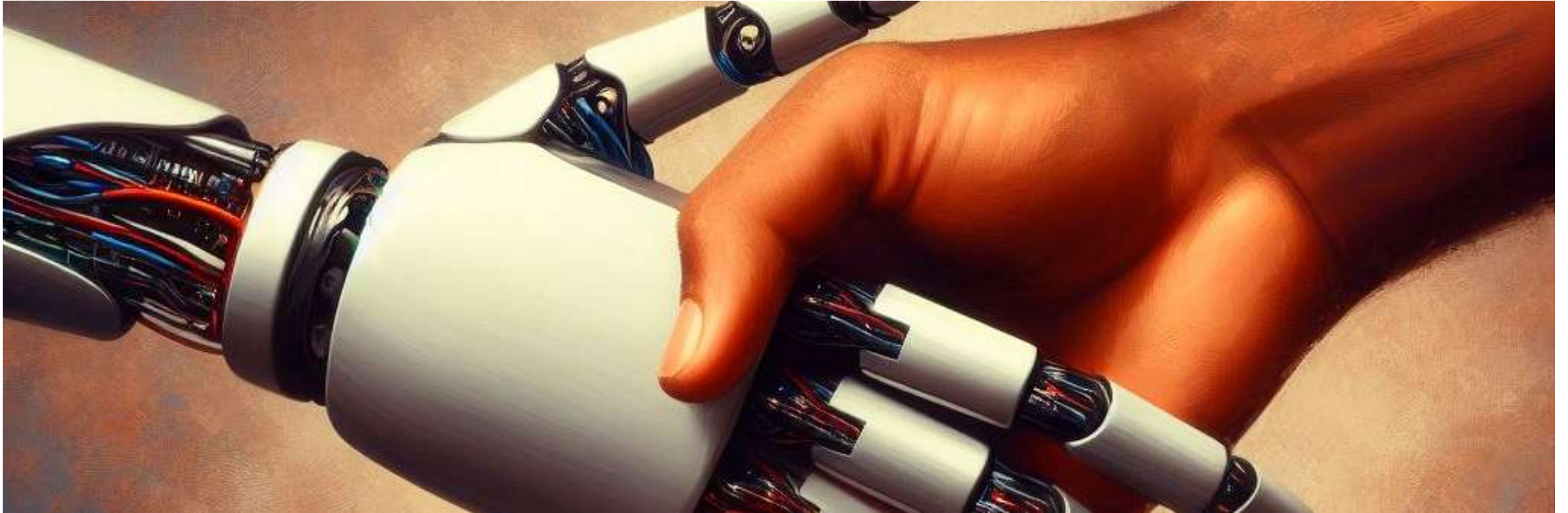
Understand change fatigue in the workplace



AI-enhanced work IS COMING, one way or another

# Takeaways





Action Item: Try it

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# AI is a Human-Enhancer not a Human Replacement

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AI is coming, whether you want it or not.







...So get ready  
and learn!

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# Me

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David Wesst

Solution Architect

University of Manitoba

<https://www.davidwesst.com>

<https://www.youtube.com/davidwesst/>

<https://www.linkedin.com/in/davidwesst/>





# Remember the Human

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[WWW.REMEMBERTHEHUMAN.AI](http://WWW.REMEMBERTHEHUMAN.AI)

# References

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[https://www.reddit.com/r/StableDiffusion/comments/141hg9x/controlnet\\_for\\_qr\\_code/](https://www.reddit.com/r/StableDiffusion/comments/141hg9x/controlnet_for_qr_code/)

[https://www.reddit.com/r/ChatGPT/comments/13wfaqg/photoshop\\_ai\\_generative\\_fill\\_was\\_used\\_for\\_its/](https://www.reddit.com/r/ChatGPT/comments/13wfaqg/photoshop_ai_generative_fill_was_used_for_its/)

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[Responsible and trusted AI - Cloud Adoption Framework | Microsoft Learn](#)

[WatchMeForever - Twitch](#)