



# Rise of the Machines

Artificial Intelligence is Here Now

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NetWeave Social Networking



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# He doesn't exist



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# What is AI?



2 min. of recording

5 min. to upload

10 min. to generate

No specialized  
equipment needed

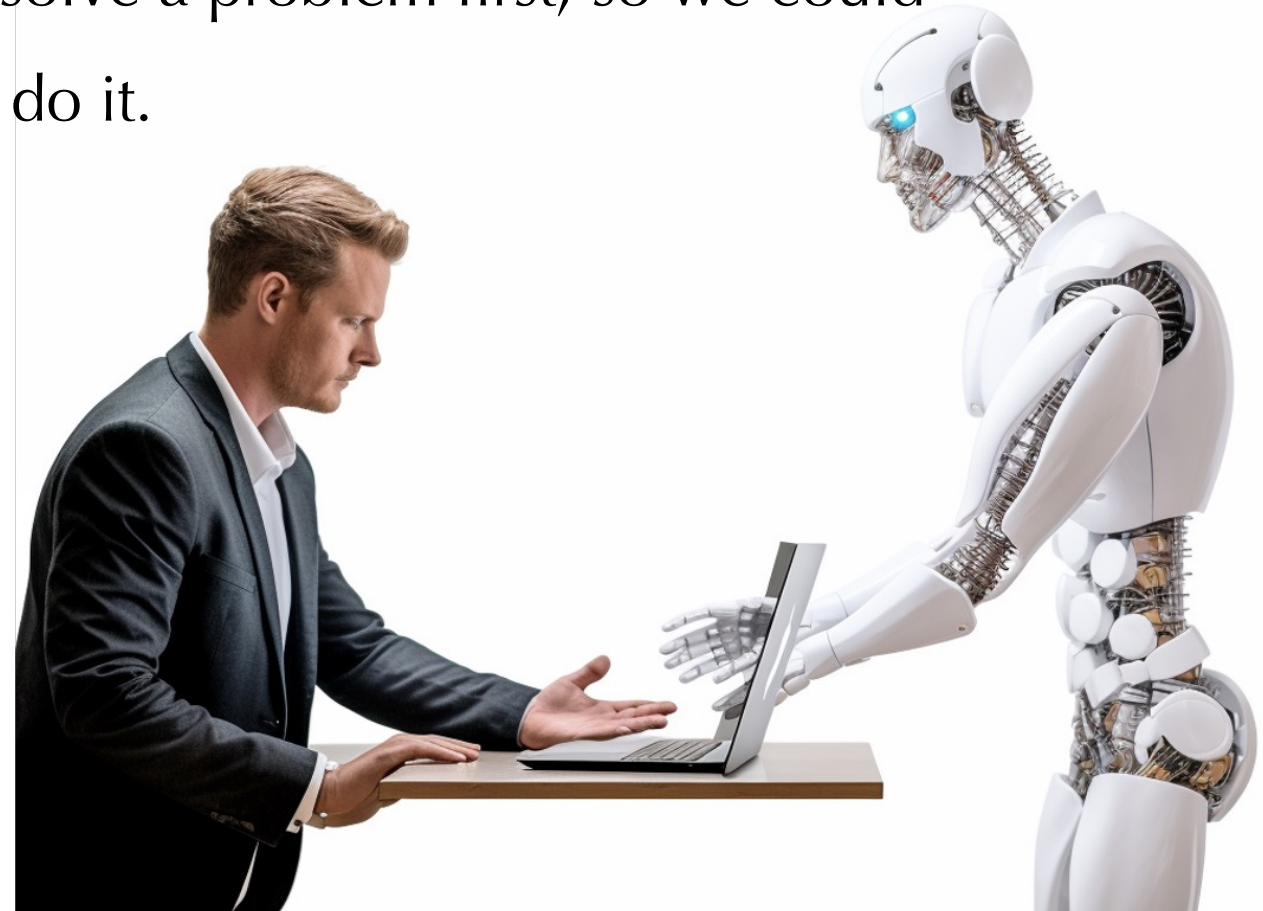


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# What is AI?

*Changes nature of human-computer relationship.*

- Humans used to have to solve a problem first, so we could tell the computer how to do it.
- With AI, you can simply give a problem to a computer and ask it to see what solutions it can come up with.



# Types of AI – General AI

- Human-like cognitive abilities.
- Understanding, learning, reasoning, applying knowledge across wide range of tasks.
- Level of intelligence  $\geq$  human.
- Can perform any intellectual task a human can.
- Possesses self-awareness and consciousness.
- Doesn't require constant human supervision to function effectively.



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# Types of AI – Narrow AI

- Perform specific task/solve particular problem.
- Do not possess general knowledge or understanding beyond their predefined functions.
- Requires human intervention to operate outside its designated tasks.
- Has no self-awareness/consciousness.
- Cannot learn or adapt beyond its predefined capabilities.



# Types of AI – Generative AI

- Subset of narrow AI tools that create new content instead of analyzing existing data.
- Involves training a model usually on a HUGE dataset.
- Can generate images, text, music, videos, code, etc.
- Nearly 11,000 generative AI tools have been released.



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# Generative AI Examples

**Text generators:** ChatGPT, Gemini, Claude, Pi.

⚡ GPT-3.5

⚡ GPT-4 🔒

## ChatGPT

**Explain why popcorn pops**

to a kid who loves watching it in the microwave

**Help me study**

vocabulary for a college entrance exam

**Design a database schema**

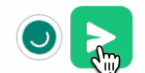
for an online merch store

**Create a charter**

to start a film club

Send message

Write a one-paragraph ad for a mystery shopper position?



# Generative AI Examples

**Image Generators:** Midjourney, DALL-E, Stable Diffusion, Firefly.



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# Generative AI Examples

**Audio Generators:** Eleven Labs, Mubert, Avia, Soundful.



# Generative AI Examples

**Video Generators:** Sora, HeyGen, Pika Labs, RunwayML.



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shutt

ok

ROBINA MEDROY

February 15, 2023



**February 15, 2024**

# Generative AI Examples

Image Generators: **Midjourney**, DALL-E, **Stable Diffusion**, Firefly.

Text generators: **ChatGPT**, **Google Bard**, Claude, Pi.

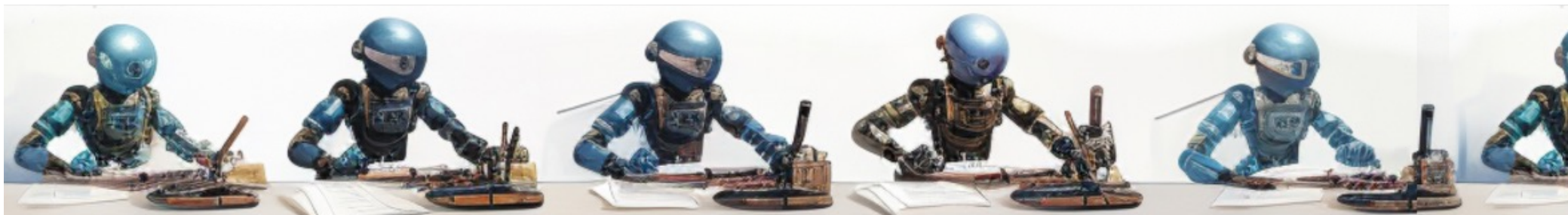
Audio Generators: **Eleven Labs**, Mubert, Avia, **Soundful**.

Video Generators: **Sora**, **HeyGen**, Pika Labs, RunwayML, Synthesia.

Video Editors: Munch, InVideo, Pictory.

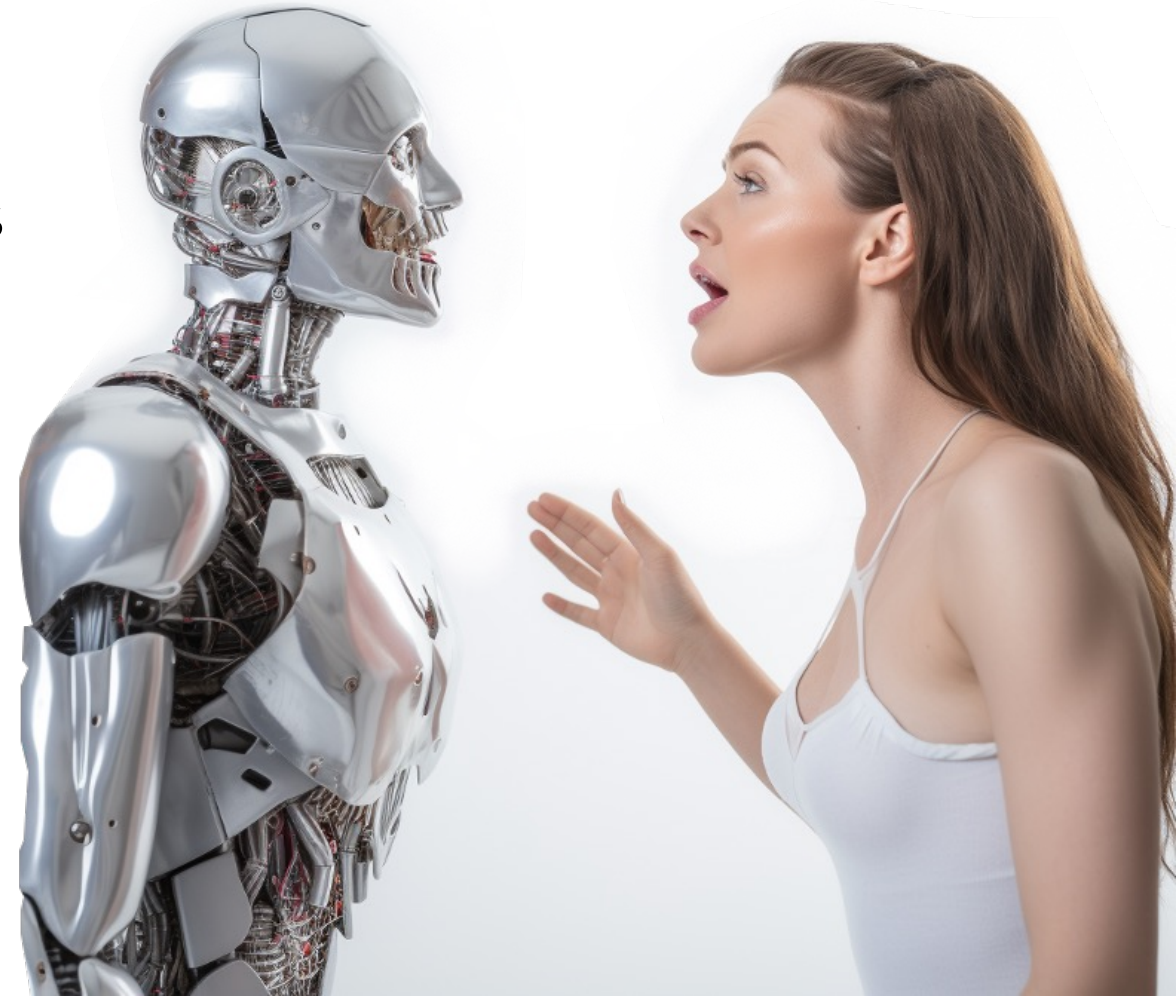
Code Generators: GitHub Copilot, Alphacode, AutoGen.

Keep up with [futuretools.io](https://futuretools.io)!



# Challenges with Generative AI

- You must be able to fact check output.
- Count the fingers & toes.
- Good prompts are sometimes hard, and sometimes the AI doesn't get it.
- Though there are guardrails, inappropriate content is still possible.



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# Limitations of Generative AI

- Lack of common-sense understanding.
- Sensitivity to input data, leading to biases.
- Overconfidence in the face of uncertainty.
- High computational requirements.
- Limited long-term coherence.
- Hallucinations that are poorly understood.
- We don't fully understand machine learning.
- **NOT A SEARCH ENGINE.**



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# Now What?

- Start using it now.
- Focus on productivity savings & quality improvement.

According to a study by Harvard Business School:

- Using ChatGPT = +25% in speed.
- Using ChatGPT = +40% in quality.
- Using ChatGPT = +12% in tasks completed.
- Eventually, AI will be integrated into your traditional tools – be prepared with experience.



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# Questions?

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