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# Current Trends in AI technologies



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# AI Vision



The current vision of AI focuses on creating human-centered, responsible, and intelligent systems that empower individuals and organizations.

AI aims to become ubiquitous and multimodal, understanding text, images, video, and speech together in real-world context. There's a strong push for ethical, transparent, and inclusive AI, ensuring safety, fairness, and reduced bias.

AI is seen as both an automation tool and a personal assistant, helping people make better decisions and do more.

It's also geared toward solving global challenges like climate change, healthcare, and education.

Finally, the vision includes scalable, efficient, and accessible AI, available across devices, sectors, and communities.





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# What is Multi modal AI?



## Trend 1

- Multimodal AI can process and understand multiple types of data — such as text, images, audio, and video — simultaneously.
- It mimics human perception more closely by combining multiple senses (like seeing and hearing together).
- Unlike traditional models that handle only text or images, multimodal models "see", "hear", "read", and "speak" at the same time.





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# Leading Multimodal Models

- OpenAI GPT-4o: Understands text, images, audio, and responds with text or speech in real time.
- Google Gemini 1.5: Handles large documents and multimodal input for advanced reasoning.
- Anthropic Claude 3: Capable of visual input (charts, images, diagrams) and advanced reasoning.





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# AI Agents & Autonomy

## ■ Trend 2

- Rise of agentic AI (AI that acts on your behalf)
- Tools like Auto-GPT, personal assistants, agents in productivity tools
- Real-life examples (e.g. AI booking meetings, analyzing emails)





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# Leading AI Agents

- Auto-GPT
- Microsoft 365 Copilot.
- Google Duet AI / Gemini for Workspace
- Rewind AI
- ChatGPT with Custom GPTs & Memory (OpenAI)

Microsoft 365  
Copilot



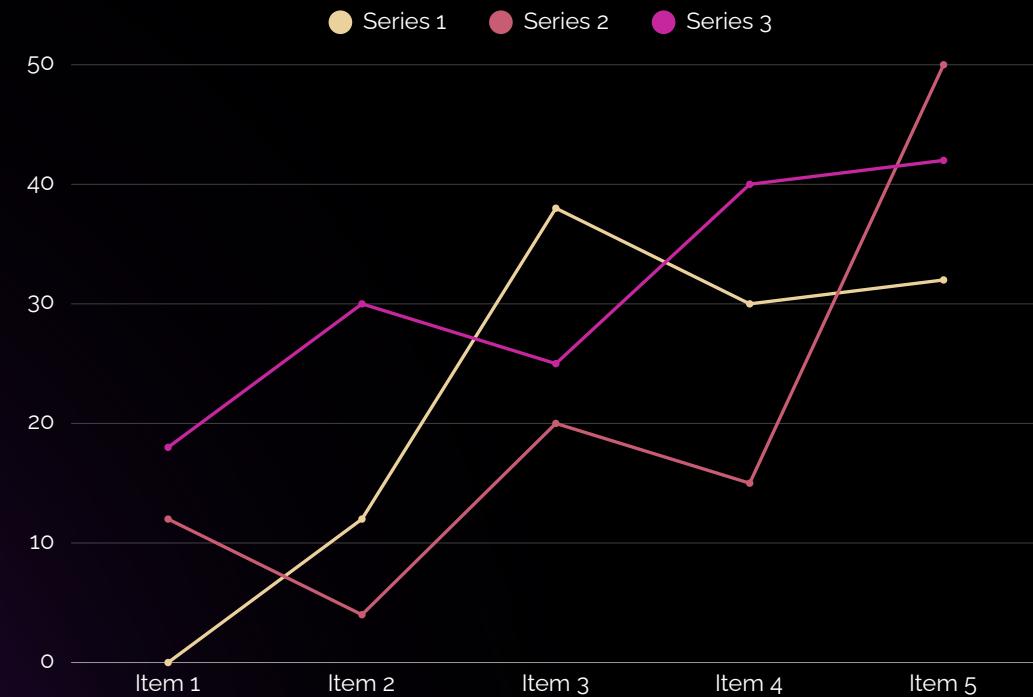


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# Edge AI & Efficiency

## ■ Trend 3

- AI running on smartphones, cameras, IoT devices
- Benefits: faster, private, lower bandwidth use
- Tools: TinyML, Apple Neural Engine, Qualcomm AI chips





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# Leading Edge AI Today

- GPT-4o
- Gemini 1.5 (Google DeepMind)
- S Devin (Cognition Labs)
- Sora (OpenAI)
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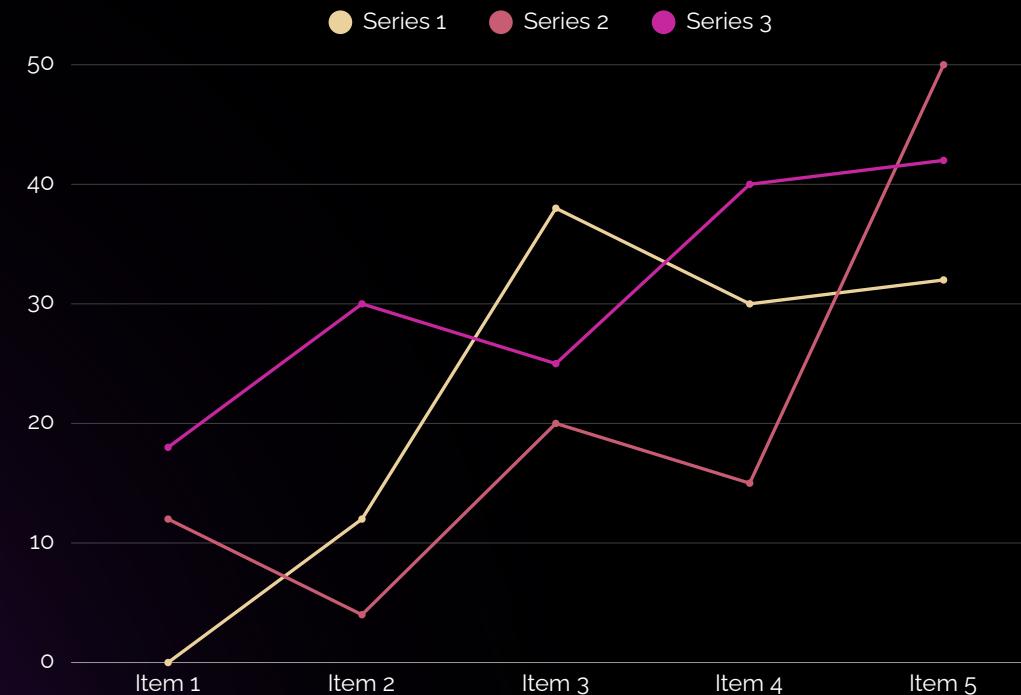
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# Democratization of AI



Trend 4

- AI is more accessible than ever
- Open-source models (LLaMA, Mistral, Gemma)
- Low-code/no-code tools (e.g., ChatGPT, Runway, Pika Labs)



# Challenges & Risks



## Job Displacement & Economic Impact

Automation of repetitive tasks is reducing the need for some human roles..



## Data Privacy & Security

- AI relies on massive amounts of user data — text, images, voice, location, etc.
- Improper handling of data can lead to data breaches, identity theft, or unauthorized surveillance.
- There are serious concerns around:
- How AI collects, stores, and uses data.
- Who owns the data used to train large models.

# CONCLUSION

- AI is evolving rapidly – faster than regulation
- Balanced development = innovation + ethics
- Future: Personal superintelligence, sustainable AI, smarter societies

**“AI won’t replace you – someone  
using AI will”**