

Unleashing Generative AI for Everyone



Greemar Sempio

Nov 9, 2024



What to expect?

- Intro to AI & Concepts
- Learn how AI tools can automate mundane tasks
- Integrate AI seamlessly into your daily operations
- Leverage on Gen-AI tools
- Opportunities with Gen AI skills
- AI Ethics & Risks



How to do?

- Demo
- Examples
- Practice



Have some fun!

- Q&A
- Online Quiz

DISCLAIMER

This presentation is intended for informational and educational purposes only. Any brands, tools, or platforms mentioned are used purely for demonstration and illustrative purposes. We do not endorse or promote these brands, nor are we affiliated with them in any capacity. Additionally, while the demonstrations showcase the capabilities of generative AI, the results are illustrative and may vary across different use cases. Outcomes shown are not guarantees and may not fully represent real-world applications, as generative AI models can yield variable results based on context, input, and underlying training data. Participants are encouraged to verify any insights or outputs with additional resources before applying them in practical scenarios.



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Let me begin with a question...

Can you please tell me
what is your understanding
about Artificial Intelligence
(AI) in one word?



The background is a collage of coffee-related images. At the top, there are several Starbucks cups and sleeves, including one with the Starbucks logo and another with the text 'LOVELY BARSTED'. Below this, there are more coffee cups, some in paper sleeves, and a hand holding two cups with the 'Mano' logo. The entire image has a blue tint.

INNOVATION

or

INVENTION

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INNOVATED

 Polaroid **or** **BORDERS**

DISRUPTED

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Alphabet



amazon



UBER



NETFLIX

Grab



zoom



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Four Industrial Revolutions



1765

1st revolution

MECHANIZATION

led by the steam engine



1870

2nd revolution

MASS PRODUCTION

driven by electricity and oil-based power



1969

3rd revolution

AUTOMATED PRODUCTION

supported by electronics and information technologies



Today

4th revolution

NEW TECHNOLOGIES

Internet of Things (IoT), Artificial Intelligence (AI); Big Data, Cloud, Cyber-Physical Systems

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What AI can do?



Prompt: A stylish woman walks down a Tokyo street filled with warm glowing neon and animated city signage. She wears a black leather jacket, a long red dress, and black boots, and carries a black purse. She wears sunglasses and red lipstick. She walks confidently and casually. The street is damp and reflective, creating a mirror effect of the colorful lights. Many pedestrians walk about.

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Apple's iPhone 16 launches to cheers and applause as hundreds queue outside Orchard Road store



1 of 3 Shoppers queuing outside the Orchard Road Apple Store to buy the iPhone 16 on Sept 20. ST PHOTO: BRIAN TEO

Fatimah Mujibah and Ian Cheng

UPDATED SEP 20, 2024, 04:11 PM



SINGAPORE - "Five, four, three, two, one!"

The crowd outside the Apple Store in Orchard Road counted down, erupting in cheers and applause as the first few customers in the queue entered the store in an orderly manner at 8am on Sept 20 to get their hands on the latest iPhone.

About 110 people were seen queuing outside the store at 6.10am. By 8.30am, the



Source: <https://www.straitstimes.com/singapore/snaking-queues-at-orchard-road-s-apple-store-ahead-of-iphone-16-launch>

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What is
**Artificial
Intelligence ?**



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ChatGPT ▾



Hello! How can I assist you today?

can you please what is artificial intelligence in a layman term? thanks



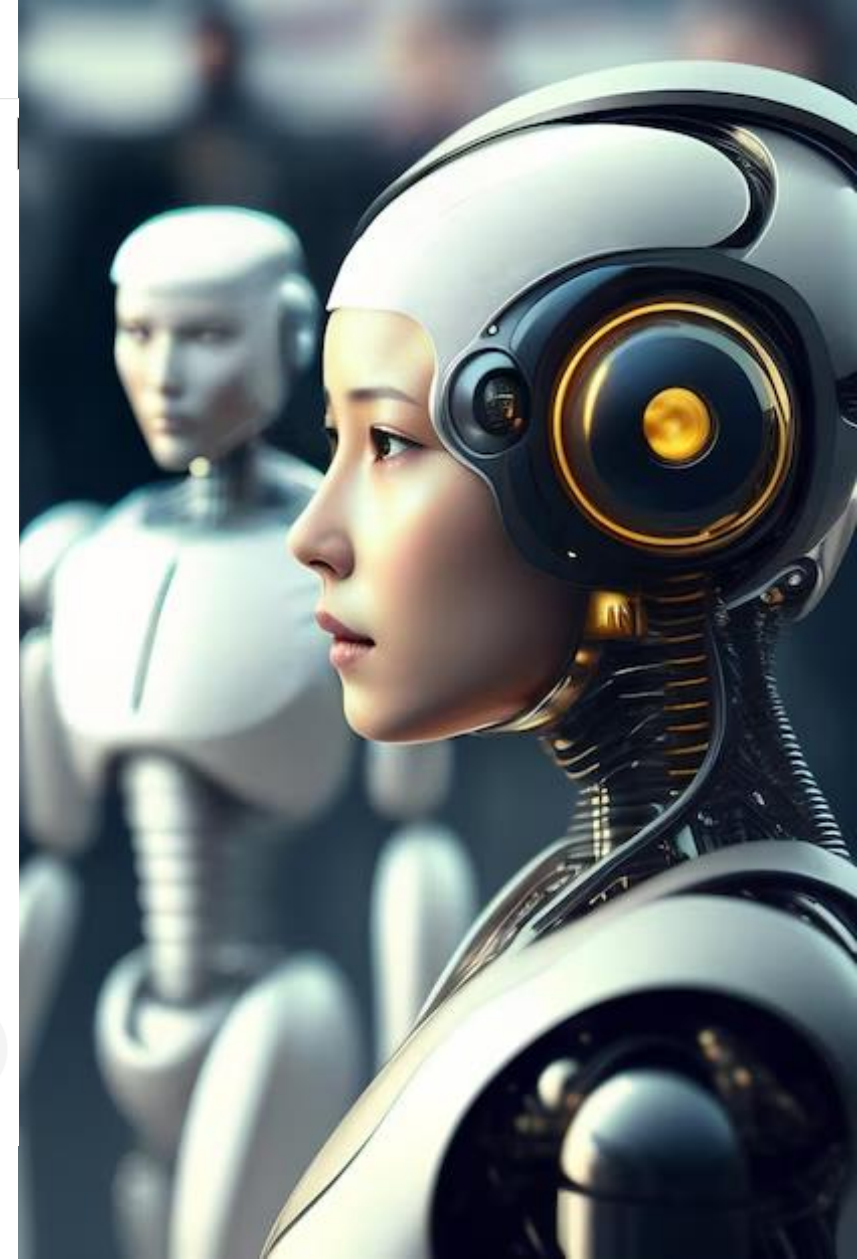
Sure! Artificial Intelligence (AI) is like teaching a computer to think and learn a bit like a human. It's about creating software that can solve problems, make decisions, and understand information. For example, AI is used in things like voice assistants (like Siri or Alexa), recommendation systems (like Netflix suggesting movies), and self-driving cars. It's all about making machines smart enough to do tasks that normally require human intelligence.



Message ChatGPT



ChatGPT can make mistakes. Check important info.




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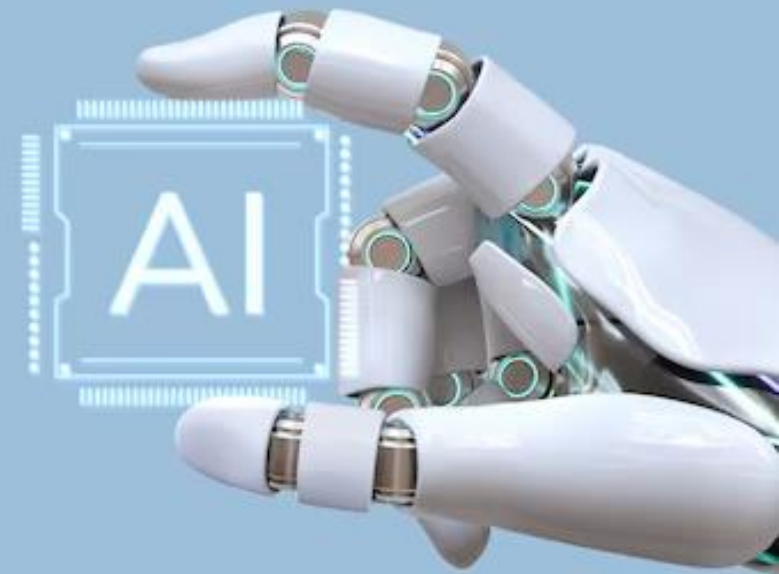
“A...you have to understand it, because it will have a significant impact on every single thing that you do..”
– Mark Cuban

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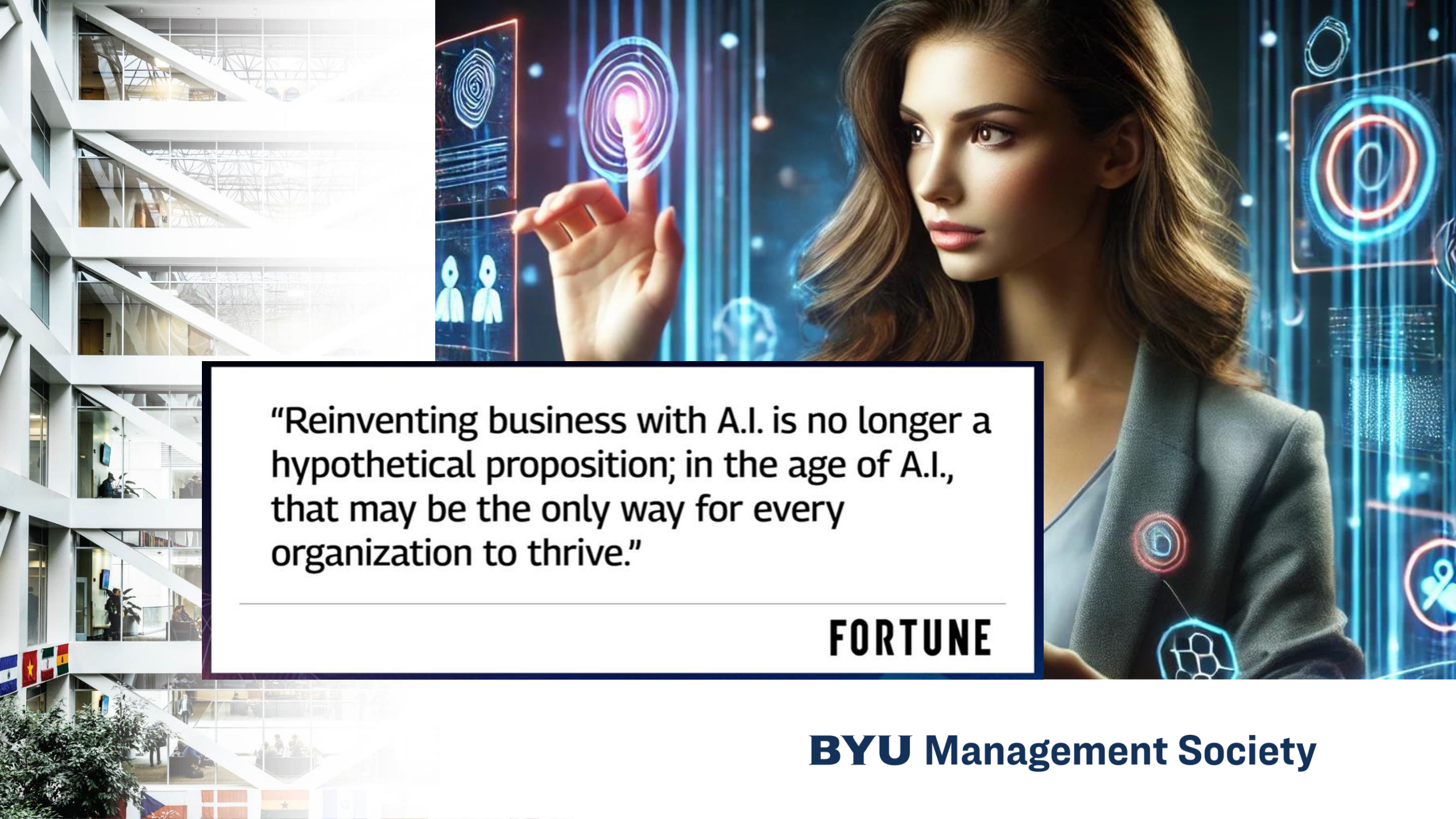


AI is probably the most important thing humanity has ever worked on. I think of it as something more profound than electricity or fire.

-Sundar Pichai



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“Reinventing business with A.I. is no longer a hypothetical proposition; in the age of A.I., that may be the only way for every organization to thrive.”

FORTUNE

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→ ↻ 🌐 bain.com/about/media-center/press-releases/2024/market-for-ai-products-and-services-could-reach-up-to--\$990-billi...

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Press release

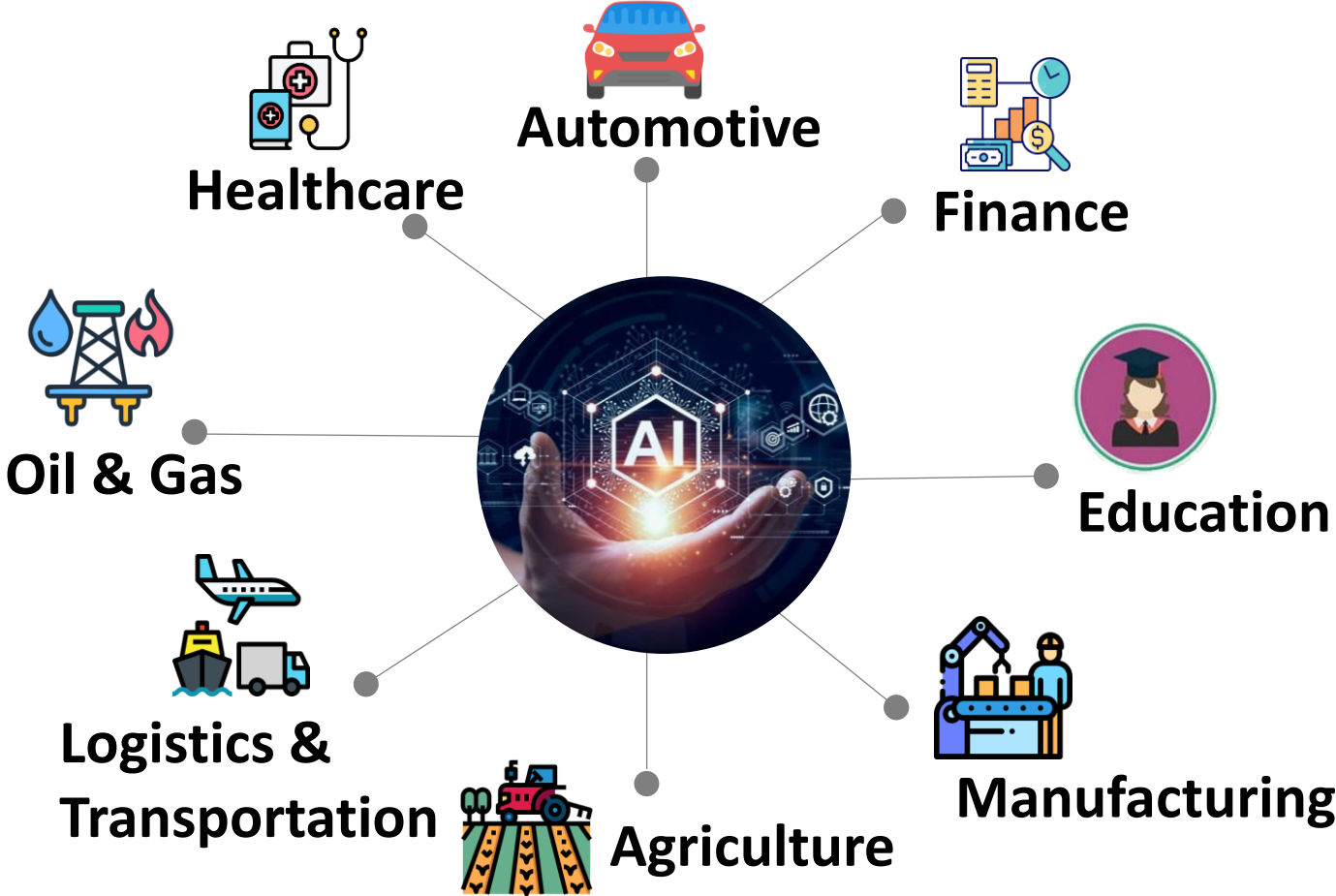
Market for AI products and services could reach up to \$990 billion by 2027, finds Bain & Company's 5th annual Global Technology Report

September 25, 2024 • 6 min read

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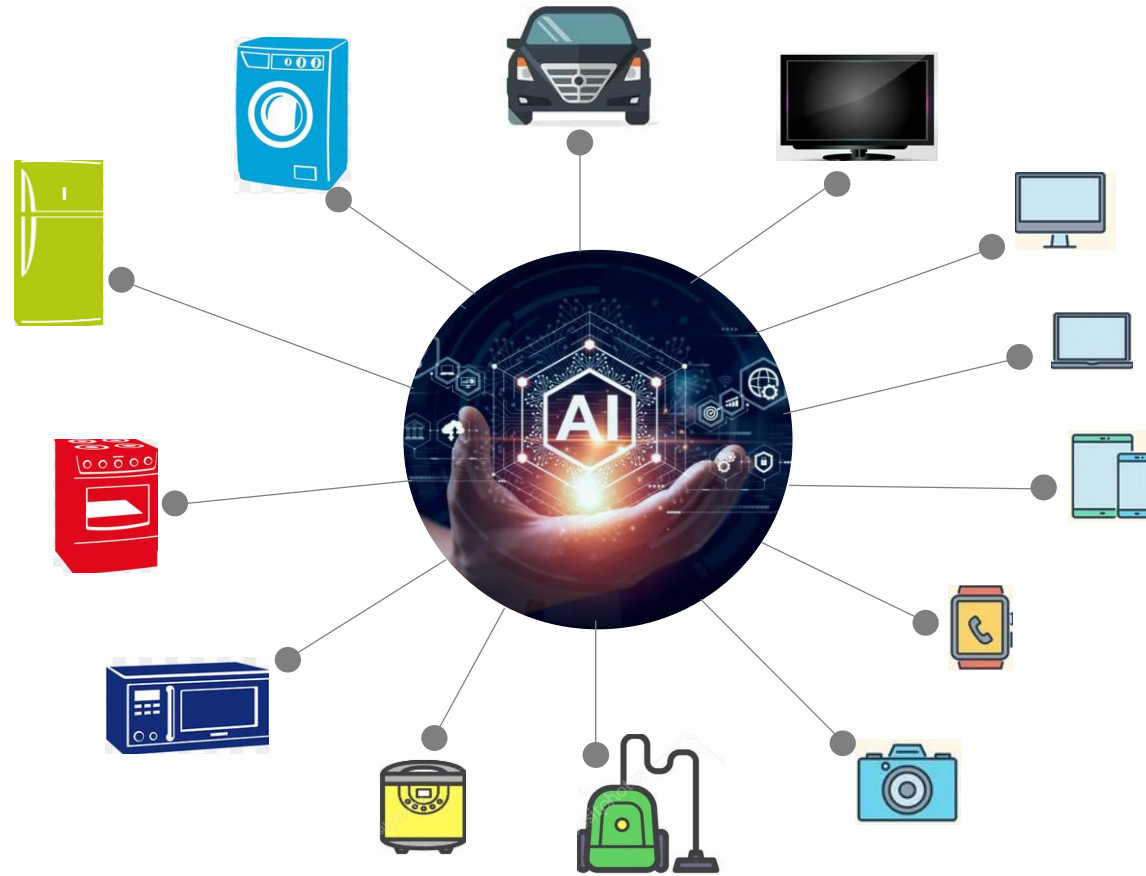


AI Adoption by Industries



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AI Applications



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Google Assistant



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Wimbledon tennis tournament to use AI to make line calls in break with tradition

Artificial intelligence will be used to make the 'out' and 'fault' calls

The Associated Press · Posted: Oct 09, 2024 7:47 AM EDT | Last Updated: October 10



Line umpires supervise the men's singles tennis match at the 2022 Wimbledon Championships. (File/AFP via Getty Images)



Korean Provincial Government Hires AI-Powered Virtual News Anchor

The provincial government of Jeju Island, in South Korea, recently hired a news anchor to conduct its weekly YouTube program, Weekly Jeju, for a fraction of the cost of its former employees. J-na seems very experienced at her job despite her young age, but that's only because she isn't a real human, but a computer-generated virtual avatar managed by a private contractor. The news she appears to read on-screen is also a script generated by AI language models like ChatGPT. According to the island province, switching to a virtual news anchor was a much cheaper option, as J-na and the news generation script reportedly cost only 600,000 won (\$450) per month.



Source: <https://www.odditycentral.com/news/korean-provincial-government-hires-ai-powered-virtual-news-anchor.html>



MARKETS BUSINESS INVESTING TECH

AI IMPACT

AI is getting very popular among students and teachers

PUBLISHED TUE, JUN 11 2024 2:23 PM EDT | UPDATES



Eric Rosenbaum
@ERPROSE

KEY POINTS

- The percentage of K-12 students who use AI and approve of it has risen sharply since a new poll conducted by Impact Foundation.

OCTOBER 13 • 2024 The Irish Mail on Sunday

'Every student uses AI. Lots of teachers don't - students are well ahead'

That is the stark warning from the expert who says the tech is a useful tool for teacher admin

By Adam Pogrund

CONCERNED: Patrick Hickey, a teacher trainer in AI, says there are no guidelines in Ireland

lished by the end of the year. In the meantime, the chronic shortage of teachers has left many schools understaffed. In the 2023/24 school year, more than 1,700 retired teachers provided substitute cover, an increase of 12% on the previous year. In response to queries about AI's potential role in helping with teacher shortages, a spokesperson for the Department of Education said: "While teachers can use AI to help automate certain routine tasks, AI cannot replace teachers. The education system in Ireland recognises that teachers as authors

'AI is a teacher assistant, not a replacement'

nom professionals are best placed to consider how to incorporate the use of technology, including AI, into their teaching". In the UK, a study of 413 schools, 32,000 staff, and approximately 250,000 students showed that most schools are using the technology for adaptive learning (33.3%), content generation (28.6%), automated feedback (19%) and chatbot (19%). However, Rose Luckin, professor at University College London, urges caution in its use. "AI is effective as an assistant for teachers and learners but not as a replacement rather it complements it," she says. "The secret to success is to recognise we have this very intelligent technology that should become more clever - but not dumb us down. The biggest risk is if we stop being able to do our job properly offload our thinking to technology like with GPS, that's what we need to do our job."

Patrick Hickey echoed on these issues: "I'm very concerned about students using it without guidance. If teachers don't know what to do, they're in a position ethically. Every student in the classroom using it on Snapchat (which is its own chatbot) for their homework. If teachers are happy but their homework is not theirs, that's a problem. No student should use it. It's explained. AI can't understand of that. It's pop in your home. We go. There is a huge misuse of it."

news@mal

'All teachers should be shown how AI works'

acknowledges that AI can reduce teacher workload, provide feedback and help to individualise learning. Patrick Hickey, a teacher trainer in AI, said the department's progress on the issue is too slow. He told the Irish Mail on Sunday: "There are no guidelines. We know AI is there but teachers have not been instructed to what extent we or kids can use AI". Mr Hickey, who teaches English and History at Boherbue Comprehensive School in Mallow, Co. Cork and is known as @AITeachingGuru on social media, said he was "very concerned" that Ireland hasn't progressed AI in the classroom. "Every school in the country should shut down for one day and all teachers should be shown how AI works", he said. "Every student uses it. Lots of teachers don't. Students are well ahead. AI can be hugely beneficial for teachers. I've been a teacher for 27 years and I'm so glad I can use it. It makes such a difference in what I can do. It has transformed my teaching and my students' learning. Because of AI I'm giving the best feedback I've ever given."

Mr Hickey reads essays before voice-noting his feedback into ChatGPT, which then writes it out articulately. "To do that for 24 people is next to impossible. I get more bang for my buck. Students get more detailed and specific feedback. It used to take 10 days to mark essays, now it takes one." Latest research by the Teachers' Union of Ireland (TUI) revealed that 51% of newly recruited teachers said that they would consider teaching abroad. And a large amount of paperwork was cited as one reason for their inclination to quit Ireland. "An ever increasing workload, particularly that of a bureaucratic nature, continues to be a demoralising factor, and one that many leave the profession," the TUI said of the survey. Mr Hickey says the results don't surprise him, but suggests AI could provide a solution. "AI is helpful from an admin point of view," said Mr Hickey. "Creating engaging lessons, making relevant and creating different resources. It's helpful for substitute teachers. You get thrown in the deep end. You're told on Sunday evening about Monday morning's school, learning names, then preparing lessons. AI can be very helpful. If you understand properly you can craft it for great lessons. The only limit to AI use is a person's imagination."

Although Ireland has no special fund to promote AI, schools can individually invest in AI using ICT grants as part of the Government's Digital Strategy for Schools to 2027. The Department of Education said that AI guidelines will be published by the end of the year.

'The only limit to AI is a person's imagination'

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COMMIT: Education Minister Norma Foley

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“Will my jobs be replaced by AI?”


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AI in Southeast Asia: Are jobs being replaced? Not quite yet, but an uncertain future beckons

From hospitals to call centres - artificial intelligence is raising concerns and hopes with its impact on the future of work. In the latest of a regular series examining AI's development in the region, CNA finds out what workers need to do to stay relevant.



 Rhea Yasmine Alis Haizan
31 Jan 2024 06:00AM
(Updated: 31 Jan 2024 11:20AM)

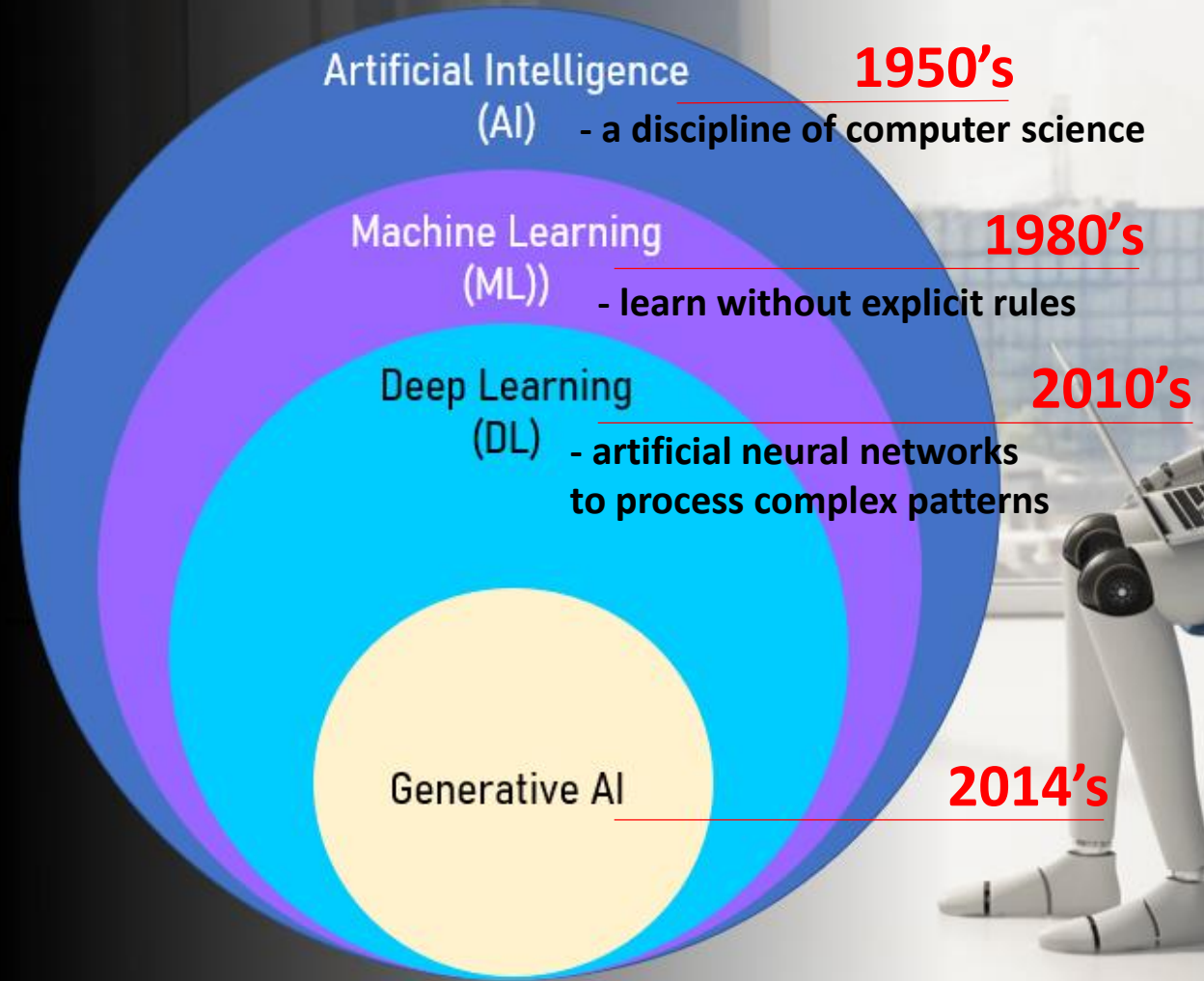


The rise of AI has led to growing worries over job security. But can it replicate the human touch? (Illustration: iStock/Moor Studio)

Source: <https://www.channelnewsasia.com/asia/artificial-intelligence-ai-replace-steal-jobs-work-healthcare-doctor-nurse-call-centre-4082086>

AI Development

Generative AI is a subset of Deep Learning because it can adapt models built using deep learning but without retraining or fine tuning.

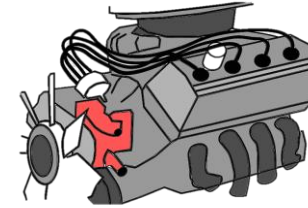


Unleashing **Generative AI** for Everyone

“Generative Artificial Intelligence (Gen AI) refers to a class of AI that is capable of generating text, images, music, audio, videos, or other data using generative models, often in response to prompts.”

Generative AI can respond naturally to human conversation and serve as a tool for customer service. For example, you can use **AI-powered chatbots, voice bots, and virtual assistants** that respond more accurately to customers.

Gen AI & LLM



Engine → LLM



Car – eg. Toyota



Gen AI – eg. ChatGPT



ChatGPT

Chat Generative Pre-Trained Transformer

ChatGPT is an AI chatbot that uses machine learning to understand and generate human-like text.

How it works

ChatGPT is trained on large amounts of text data and uses a transformer algorithm to generate text. It's a type of generative AI, which means it can create human-like images, text, or videos based on user prompts.

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Prompting

Prompt: a photograph of a monkey typing at a typewriter, wearing a small hat, in an office, realistic, highly detailed

Input



Output

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Online platform (year)

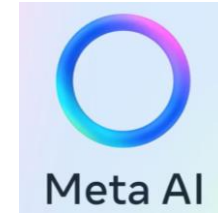
Time taken to reach one million users

Key ChatGPT / OpenAI Stats

- ChatGPT has **200 million** weekly active users worldwide.
- **67.7 million** people use ChatGPT in the US alone.
- ChatGPT Plus has around **10 million** paying subscribers.
- ChatGPT accounts for **69.9%** of the market share of the AI tools.
- OpenAI's monthly revenue stands at **\$300 million**.
- OpenAI is currently valued at **\$157 billion**.
- OpenAI has **1,700** employees worldwide.








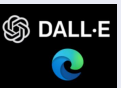





























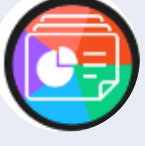




Open Source / Free Gen AI Tools



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Gen AI Capabilities

Generate	Gen AI tools			
Text-to-text			 Copilot	 Meta AI  Claude ANTHROPIC 
Text-to-image		 DALL-E  Meta AI	midjorney 	 Adobe Firefly  stability ai
Text-to-audio		 VALL-E	ElevenLabs	 boomy  SOUNDRAW
Text-to-video	 sora	 Synthesia	 D-ID  invideo	 runway  Fliki
Text-to-art	 DALL-E	midjorney	 Adobe Firefly  stability ai	  Canva  OpenArt
<p data-bbox="563 876 766 939">Others:</p> <ul data-bbox="563 962 912 1353" style="list-style-type: none"> - ebook - ppt slides - write resume - marketing plan - lesson plan - create course - “anything under the sun...” 	 Jasper	 Otter.ai  Suno	 copy.ai   QuillBot  VEED  PICTORY™	   

Let's get Gen AI to work...

DEMO



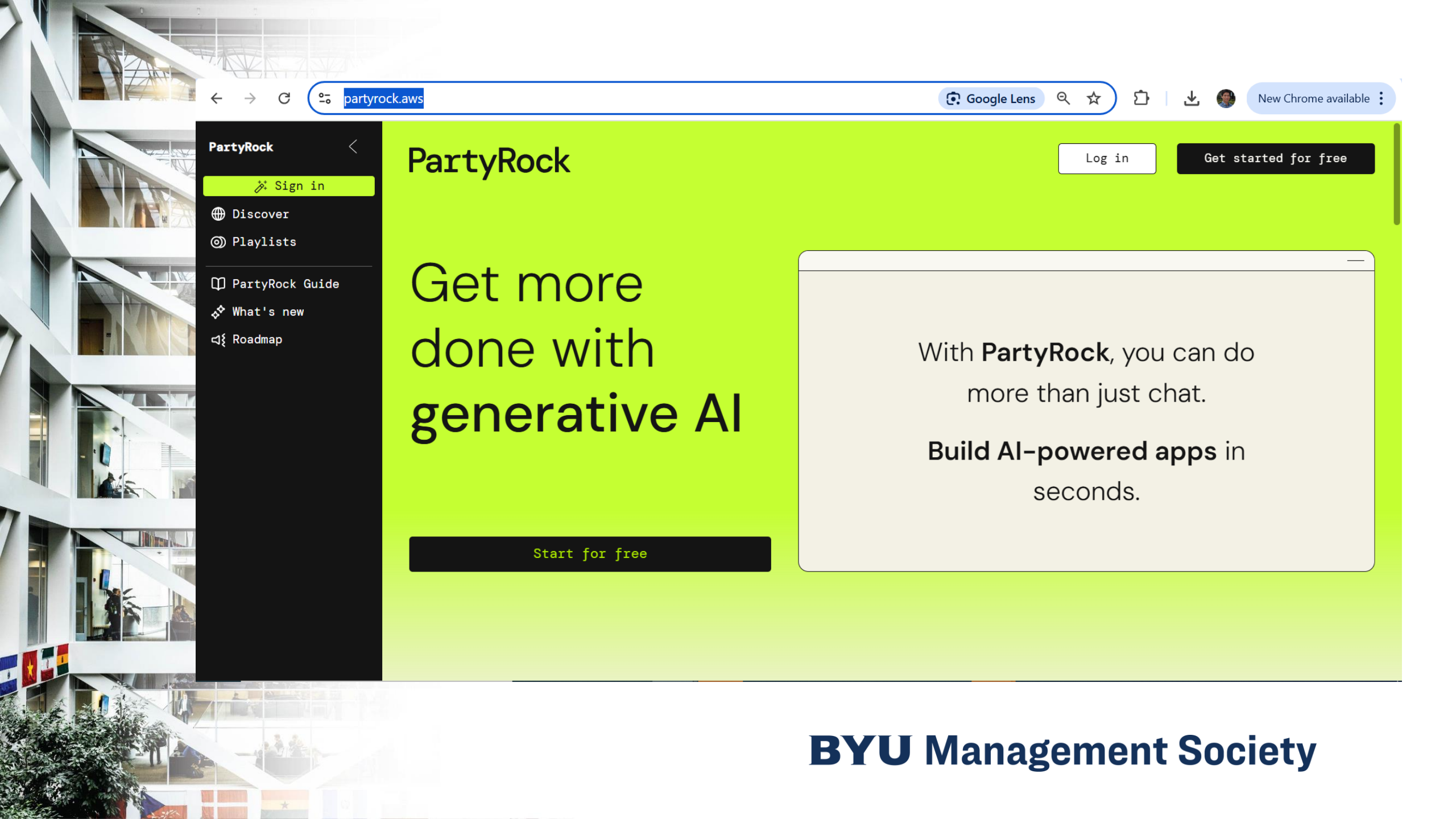
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Amazon PartyRock: A Playground for Generative AI Enthusiasts



PartyRock

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- PartyRock
- Sign in
- Discover
- Playlists
- PartyRock Guide
- What's new
- Roadmap

PartyRock

Log in Get started for free

Get more done with generative AI

Start for free

With **PartyRock**, you can do more than just chat.
Build AI-powered apps in seconds.

Prototyping with AWS PartyRock

AWS PartyRock empowers you to quickly prototype your app and test your ideas.

Rapid Prototyping

Quickly build and iterate on your app's design and functionality.

Visual Design Tools

Utilize visual design tools to create a compelling user interface.

Collaborative Environment

Share your prototypes and gather feedback from your team and stakeholders.

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<https://partyrock.aws>

Apps Sort by last updated Generate app

TravelPlan 5 views Private	Python Playground 2 views Private	Destination Duo 6 views Private
AI-Powered Resume Revitalizer 1 view Private	ResumeBuilder 3 views Private	Resume Optimizer 4 views Private
AI Career Compass 4 views Private	Python Learning Companion 2 views Private	Good Eats Restaurant Recommendations 1 view Private
Flower Fact Finder 1 view Private	Diabetes Diet Planner 4 views Shared	Flower Facts 0 views Private

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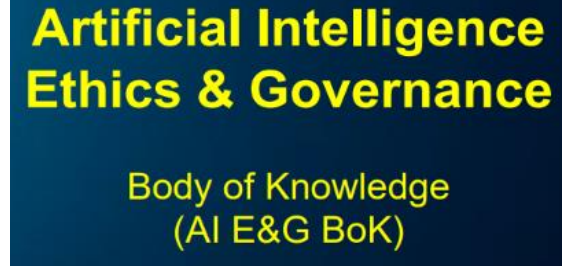
AI Ethics & Risks

Responsible AI



Risks and Ethical Issues

- Plagiarism
- Inaccuracy & Biasness
- Fake content
- Ownership and IP
- Misuse and Fake Content
- Misuse of Power vs Responsibility
- Privacy : No Consent and Unethical Use
- Security : Leakage of Corporate Data
- Security : Exposure of PII & Identify Theft
- Security : Cybersecurity attacks
- Prompts leading to harmful content
- Terms of Use



Ownership and Liability

- The basis of regulation is to continue to protect the human being. Deterrent legislation is done to ensure that the larger masses of humans could be deterred from doing harm to another human being. With this as the basis for regulation, and if AI has been invented to mimic the human being with human-like decision-making powers, then, AI has to be regulated like a human being, and the only way to do is to regulate the human owner of the AI.
- In the case of the autonomous vehicles and self driving cars, the owner of the vehicle which is the human has to ensure that the car is operating correctly, before allowing it on the road. On the roads, human interventions has to be allowed to avoid an accident. If an accident happens, the human owner would still be accountable.

Source:

<https://www.ntu.edu.sg/scse/admissions/programmes/graduate-programmes/certificate-in-ai-ethics-and-governance>

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FORBES > BUSINESS

BREAKING

Samsung Bans ChatGPT Among Employees After Sensitive Code Leak

Siladitya Ray Forbes Staff




Siladitya Ray is a New Delhi-based Forbes news team reporter.

Follow



May 2, 2023, 07:17am EDT

Updated May 2, 2023, 07:31am EDT

 **TOPLINE** Samsung Electronics has banned the use of ChatGPT and other AI-powered chatbots by its employees, Bloomberg  **reported**, becoming the latest company to crack down on the workplace use of AI services amid concerns about sensitive internal information being leaked on such platforms. 

Source: <https://www.forbes.com/sites/siladityaray/2023/05/02/samsung-bans-chatgpt-and-other-chatbots-for-employees-after-sensitive-code-leak/>

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Scammers use deepfakes to create voice recordings and videos to trick victims' family, friends



Retiree loses life savings to deep-fake Facebook scam | A Current Affair



Retiree loses life savings to deep-fake Facebook scam | A Current Affair

UPD

SINGAPORE - Scammers are tapping sophisticated artificial intelligence (AI) tools to create deepfake voice recordings and videos of people, to fool their relatives and friends into transferring money.

Speaking at the Regional Anti-Scam Conference 2023 at the Police Cantonment Complex on Tuesday, Minister of State for Home Affairs Sun Xueling said scammers

Source: <https://www.straitstimes.com/singapore/scammers-use-deepfakes-to-create-voice-recordings-and-videos-of-victims-family-friends-to-trick-them>

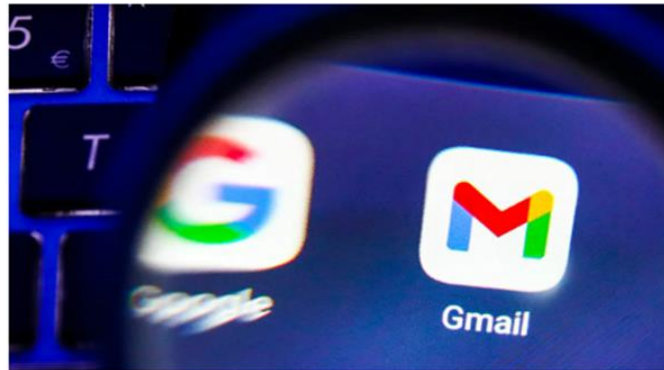
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Gmail users, beware of new AI scam that looks very authentic

A spoofed phone number, an email address plus an AI voice are all it takes to steal your Google credentials. Here's what to look out for, just in case, you happen to find yourself in such a situation.



Written by Artie Beaty, Contributing Writer
Oct. 14, 2024 at 11:14 a.m. PT



Beata Zawrzel/NurPhoto via Getty Images

If you're a Gmail user (there are nearly 2 billion of us), you'll want to be aware of a new "super realistic AI scam."

In a [recent blog post](#), Microsoft solutions consultant Sam Mitrovic shared how he recently encountered a scam attempt that was surprisingly real.

Also: [Internet Archive's Wayback Machine is back up after data breach - with a catch](#)

The [scam](#) started when Mitrovic received a notification that he needed to

/ related



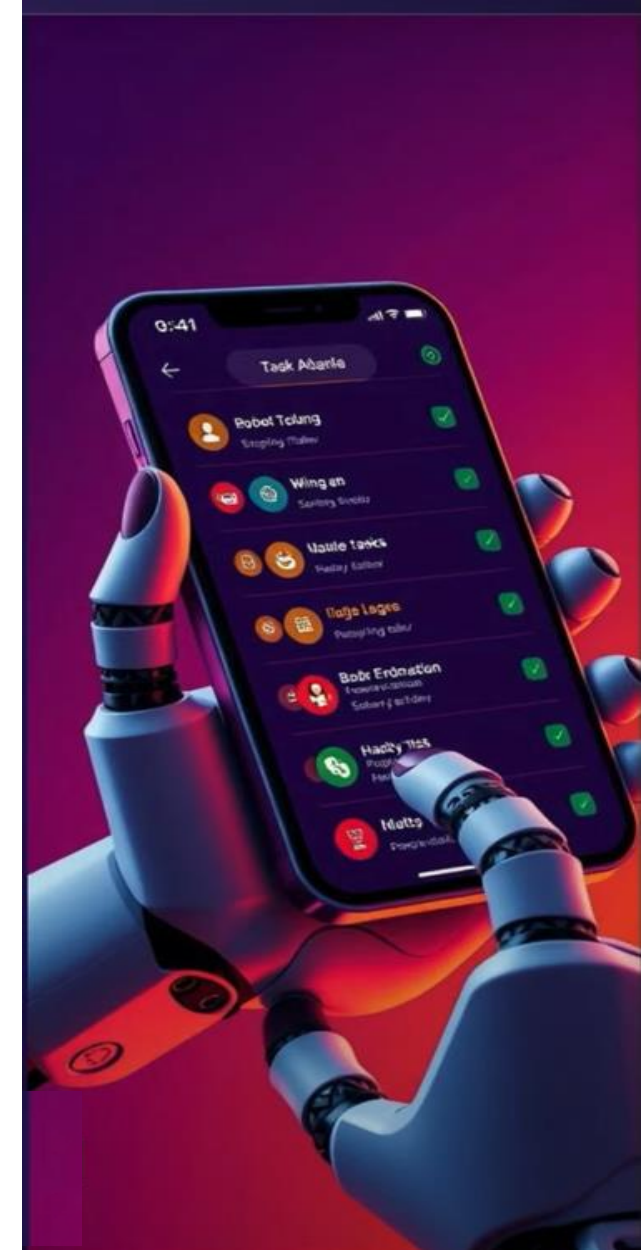
7 Gemini Live tips and tricks: How to get more out of Google's free AI voice assistant



Google Messages adds nudity blur option, plus other new security upgrades



Want to work with AI? Make sure you level up your domain expertise



Source: <https://www.zdnet.com/article/hackers-are-targeting-billions-of-gmail-users-with-a-realistic-ai-scam-how-you-can-stay-safe/>



nbcnews.com/tech/characterai-lawsuit-florida-teen-death-rcna176791

NBC NEWS 2024 ELECTION U.S. NEWS WORLD BUSINESS HEALTH CULTURE & TRENDS TIPLINE SHOPPING POLITICS WATCH LIVE

ARTIFICIAL INTELLIGENCE

Lawsuit claims Character.AI is responsible for teen's suicide

Megan Garcia says the company's chatbots encouraged her 14-year-old son, Sewell Setzer, to take his own life, according to the lawsuit.

nbcnews.com/tech/characterai-lawsuit-florida-teen-death-rcna176791

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ARTIFICIAL INTELLIGENCE

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FUTURE OF

CHARACTER.AI NEW SAFETY FEATURES

- Improved detection, response, and intervention
- Notifications when users spend an hour on the platform
- Revised disclaimer to remind users that AI is not a real person

Get more news LIVE on NBC NEWS NOW.



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Source: <https://www.nbcnews.com/tech/characterai-lawsuit-florida-teen-death-rcna176791>

Opportunities with AI skills

- **AI Product Manager**
- **AI Research Scientist**
- **AI Ethics Officer**
- **Cybersecurity analyst with AI expertise**
- **Computer Vision Engineer**
- **Data Scientist**
- **Gen AI Research Scientist**
- **AI Customer Experience Specialist**
- **Robotics Engineer**
- **AI for Healthcare Specialist**
- **AI Content Strategies**
- **Content Creator with AI**
- **E-book Writer**
- **Social Media Creator**
- **Prompt Engineer**

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Keep in mind...



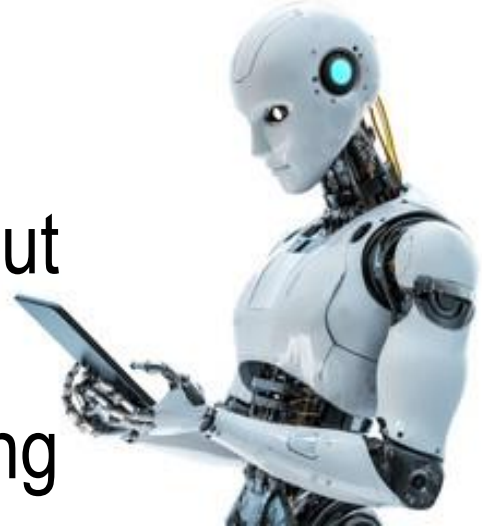
AI Won't
Replace Your
Job,
Someone Who
Understands AI
Will.

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Source: <https://www.nbcnews.com/tech/characterai-lawsuit-florida-teen-death-rcna176791>

In Conclusion

- AI provides opportunities and not impediment.
- AI is not a replacement for humans. It's about amplifying human potential.
- AI will augment human capabilities, making some jobs more efficient.
- New jobs will emerge as a result of AI advancements.
- Reskilling and upskilling will become essential for adapting to changing job markets.



Download

- 10 Promising Gen AI Jobs
- Top 25 AI-Powered Tools for your Businesses

<http://bit.ly/40GEAy4>





Online QUIZ

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Q & A

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