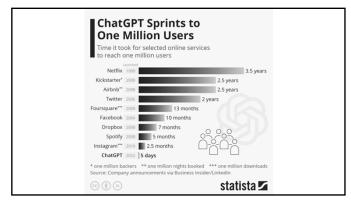
The Age of Generative AI

The Key that Opens all Doors

1









ChatGPT 3: 175 Billion

ChatGPT 4: 1.76 Trillion

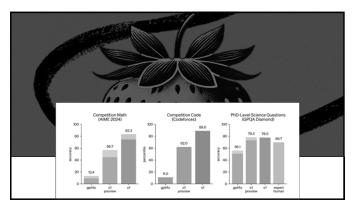
	2023
arch	2023
ChatCDT 4	

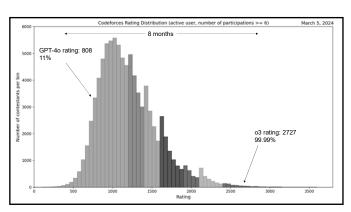
- ChatGPT-4Google Bard
- July
 XAI is founded by Elon Musk
 Meta releases Llama 2
 NVIDIA the impact of AI adoption could be greater than the inventions of the internet, mobile broadband, and the smartphone combined.
- August
 Amazon CEO Andy Jassy says 'every single one' of its teams is working on generative Al projects as the company rushes to keep pace with the Al boom
- September
 ChatGPT goes multi-modal
- ls

	Navarahan Orali 4.0
•	November – Grok 1.0
•	December – Midsized and small Google Deepmind Gemini models released

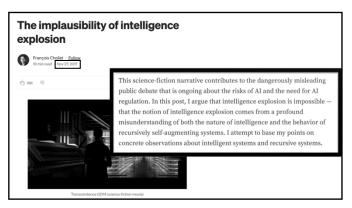
- February Gemini Ultra
- March Claude 3
- May GPT-4o
- June Claude 3.5 Sonnet
- July Llama 3.1 (8B, 70B, 405B)
- August Grok 2.0

7









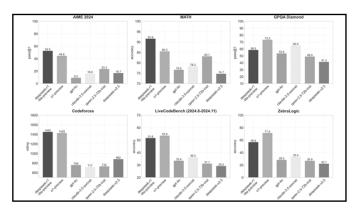




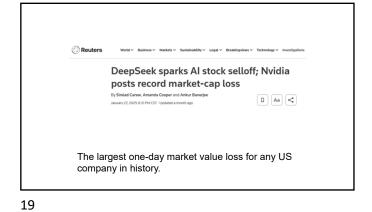














• Mixture-of-Experts (MoE)

Model Distillation



20

OpenAI 'reviewing' allegations that its AI models were used to make DeepSeek

ChatGPT creator warns Chinese startups are 'constantly' using its technology to develop competing products

OpenAI

OpenAI

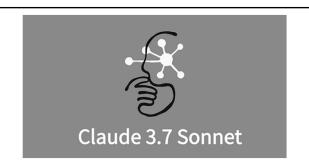
OpenAI



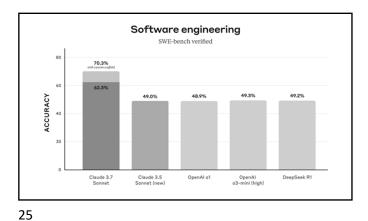


February 10, 2025

23

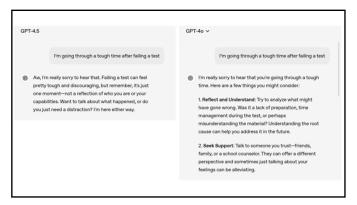


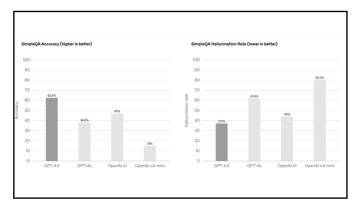
February 24, 2025 – the first hybrid reasoning model

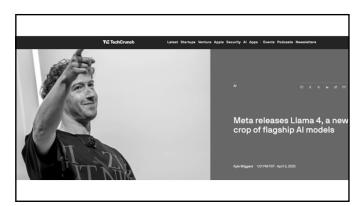


Entrepreneur. Sign In Subscribe Grow Your Biz Watch EntrepreneurTV Now 'I Do Have a Fair Amount of Concern.' The CEO of \$61 Billion Anthropic Says Al Will Take Over a Crucial Part of Software Engineers' Jobs Within a Year Anthropic recently raised \$3.5 billion and is backed by Google and Amazon. BY SHERIN SHIBU EDITED BY JESSICA THOMAS MAR 14, 2025 Share



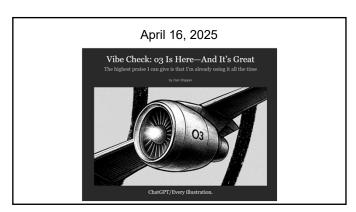




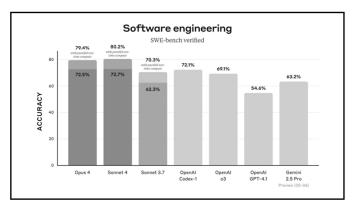


Llama 4 Behemoth							
Category Benchmark	Llama 4 Behemoth	Gemini 2.0 Pro	GPT 4.5	Claude Sonnet 3.7			
Coding LiveCodeBench (10/01/2024-02/01/2025)	49.4	36.0 °	-	-			
Reasoning & Knowledge MATH-500	95.0	91.8	-	82.2			
MMLU Pro	82.2	79.1	-	-			
GPQA Diamond	73.7	64.7	71.4	68.0			
Multilingual Multilingual MMLU	85.8	-	85.1	83.2			
Image reasoning MMMU	76.1	72.7	74.4	71.8			







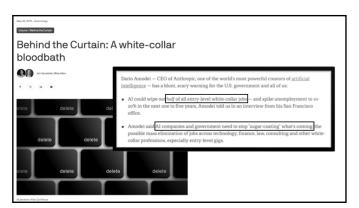


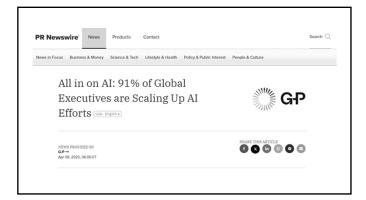
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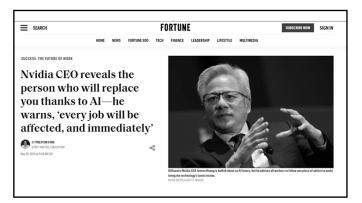
there is one model whose release we have all been anxiously awaiting



The Increasing Capabilities of Al and Jobs







"If I were a student today, irrespective of whether it's for math or science or chemistry or biology—It doesn't matter what field of science I'm going into or what profession—I'm going to ask myself, 'thow can I use Al to do my job better?" he said during a candid conversation on the *Huge Conversations* podcast with Cleo Abram.

Ask, But Ask Right
According to Huang, the real magic of Al Isn't just in using it—It's in knowing how to use it. Tools like ChatGPT, Gemini Pro, and Grok are now widely accessible, but using them effectively is a skill in itself. 'Learning how to interact with Al Is not unlike being someone who's really good at asking questions.' Huang explained. 'Prompting Al is very similar... It requires some expertise and artistry.'

The Al Revolution Is Underhyped | Eric Schmidt | TED



"I told my own staff, you're committing career suicide if you're not spending 10% of your day experimenting with the technology."

- Eric Schmidt

43

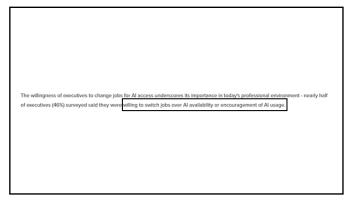
Al in the Workplace: The New Baseline Expectation



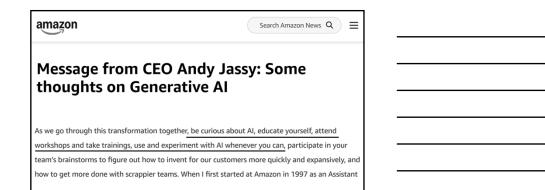


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Forbes



Message from CEO Andy Jassy: Some thoughts on Generative Al As we roll out more Generative Al and agents, it should change the way our work is done. We will need fewer people doing some of the jobs that are being done today, and more people doing other types of jobs. It's hard to know exactly where this nets out over time, but in the next few years, we expect that this will reduce our total corporate workforce as we get efficiency gains from using Al extensively across the company.





Japan plans to enact comprehensive AI legislation that legally obligates businesses to pursue AI adoption and requires all levels of government to develop AI strategies, marking an unprecedented state-led push to accelerate technological development.



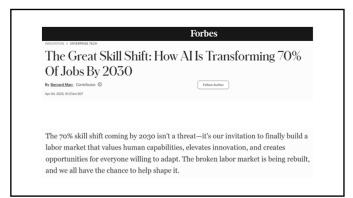


A Blockbuster moment



"We have a chance right now, like Blockbuster did, to double down on the past or boldly build the future, and AI is part of that," Weberg said. "I don't think AI will take our jobs anytime soon, but it is an enhancement, and rewinding is not the way to go."

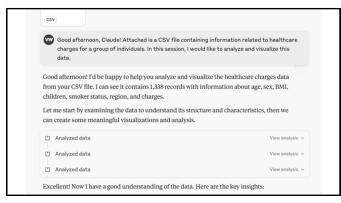
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Use Cases





Dataset Overview:

- 1,338 insurance records with 7 variables
- Healthcare charges range from \$1,122 to \$63,770 (mean: \$13,270, median: \$9,382)
- Ages range from 18 to 64 years (mean: 39.2 years)
- BMI ranges from 16.0 to 53.1 (mean: 30.7)

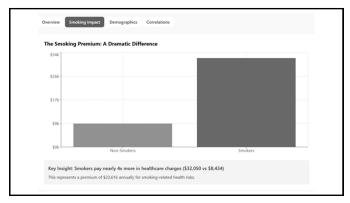
Key Findings:

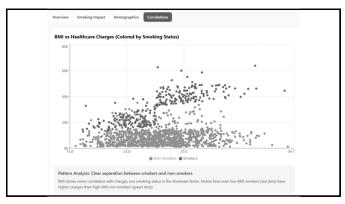
- Smoking Impact: Smokers have dramatically higher charges (\$32,050 vs 88,434 for non-smokers) nearly 4x higher!
- Gender Balance: Nearly equal split (662 female, 676 male)
- Regional Distribution: Fairly even across all four regions
- Family Size: Most people have 0-2 children (77% of dataset)

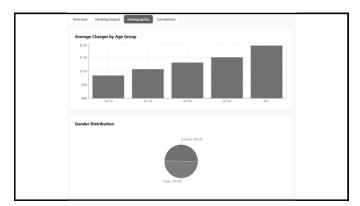
Now let me create some compelling visualizations to explore these patterns further:

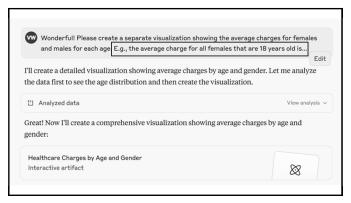
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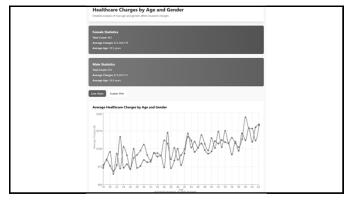


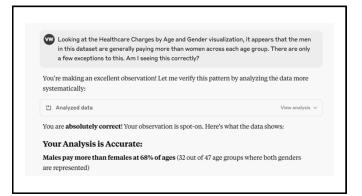












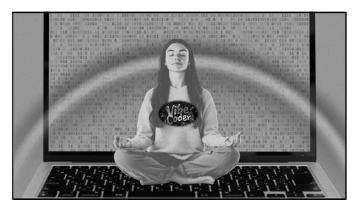
65

Medical Conference Implications:

- $\bullet \ \ Different \ health care \ utilization \ patterns \ between \ genders$
- Potential differences in risk factors or health conditions
- Whether this reflects actual health differences or healthcare system factors

You've identified a key pattern that would definitely be worth highlighting in your medical conference presentation! It's a great example of how data visualization can reveal unexpected demographic trends in healthcare costs.

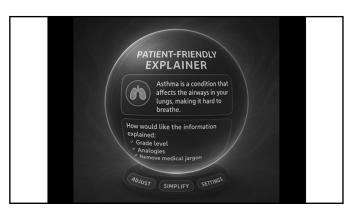




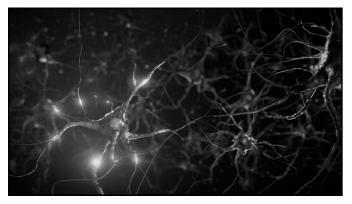


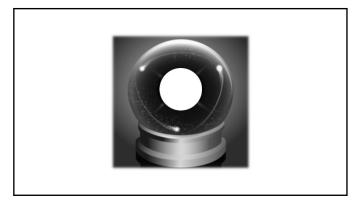
"For the first time in over 2 years of testing," the researchers warn, its AI agents "created more effective simulated phishing campaigns against millions of global users than our elite human red teams could." AI beats human — and it isn't even close. This means pointing AI at a target, and then letting it loose on the target's social media, LinkedIn, public profiles, to fuel a highly personalized attack with no errors. And this can be done at unlimited scale, against anyone and everyone, continually and endlessly.













Hazards of Prophecy: The Failure of Imagination

76

Circa 1946

Inventors of the ENIAC and UNIVAC Computers





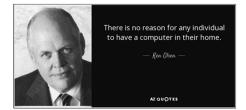
J. Presper Eckert

john mauchly

...by the year 2000, there would be at most only a few dozen electronic digital computers in the world.

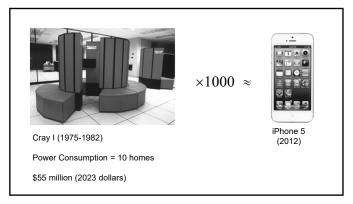
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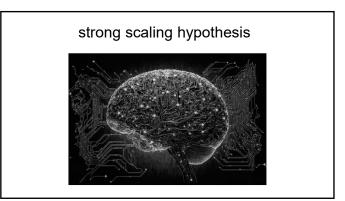
CIRCA 1974



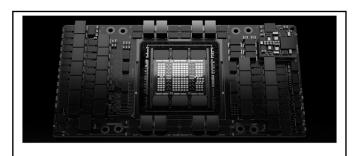
President of DEC







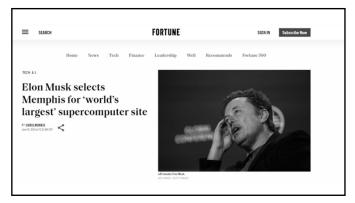




Hopper H100 80 Billion Transistors







Elon Musk's liquid-cooled 'Gigafactory' Al data centers get a plug from Supermicro CEO — Tesla and xAl's new supercomputers will have 350,000 Nvidia GPUs, both will be online within months



88

Nvidia is up 163% this year and worth nearly \$1 trillion—here's what to know before investing



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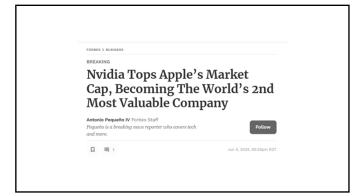
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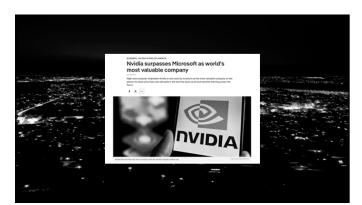
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Nvidia Tops \$2 Trillion Market
Value For First Time Ever

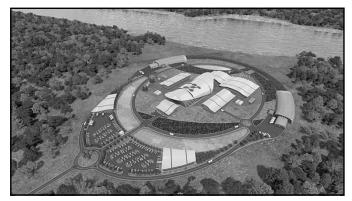
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The 23, 2014, 00-24em Est









30 Moore Years = 100 x 100 x 100







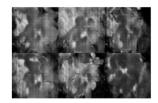


30 Moore Years = 10 Nvidia Years

95

From an evolutionary standpoint, the human brain is illequipped to comprehend large numbers and exponential growth

The problem is that the frontiers of AI are intimately associated with both of these



Generative Adversarial Text to Image Synthesis Scott Reed, Zeynep Akata, Xinchen Yan, Lajanugen Logeswaran, Bernt Schiele, Honglak Lee

97



2023

prompt: A Purple Anemone Flower

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HOME / TECHNOLOGY

AI-Generated Art Personifies Countries as Different Women Across the Globe

What If Countries Were People?

Imagined by Midjourney Al













