

Fire Australia

Machine & Artificial Learning in Fire



Foundations and Early Ideas

- 1943: Warren McCulloch and Walter Pitts introduced the concept of artificial neurons.
- 1950: Alan Turing proposed the *Turing Test* as a criterion of intelligence.

Birth of Al: 1950s to 1960s

- 1957-1959: Frank Rosenblatt developed the Perceptron, an early neural network, at the Cornell Aeronautical Laboratory.
- 1967: The nearest neighbor algorithm was written, which allowed computers to begin using basic pattern recognition.

Machine Learning: Late 1980s to 1990s

- 1986: Backpropagation algorithm popularised by David Rumelhart, Geoffrey Hinton, and Ronald Williams, significantly improved the training of neural networks.
- 1997: IBM's Deep Blue defeated world chess champion Garry Kasparov.



Big Data & Deep Learning: 2000 to 2010s

- 2006: Geoffrey Hinton, Simon Osindero, and Yee-Whye Teh developed a fast learning algorithm for deep belief nets.
- 2012: AlexNet, a deep convolutional neural network, won the ImageNet challenge, significantly reducing error rates in image recognition, sparking renewed interest in deep learning.

Modern Breakthroughs 2010's to 2020

- 2010s: Breakthroughs in deep learning led to advancements in natural language processing and computer vision.
- 2016: AlphaGo, developed by **DeepMind** (now owned by Google) defeated a world champion Go player, a landmark event showcasing the capabilities of Al.



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Explosion in Artificial Intelligence

 November 2019: OpenAl introduces GPT-2 to the public, setting the foundation for future ChatGPT models.

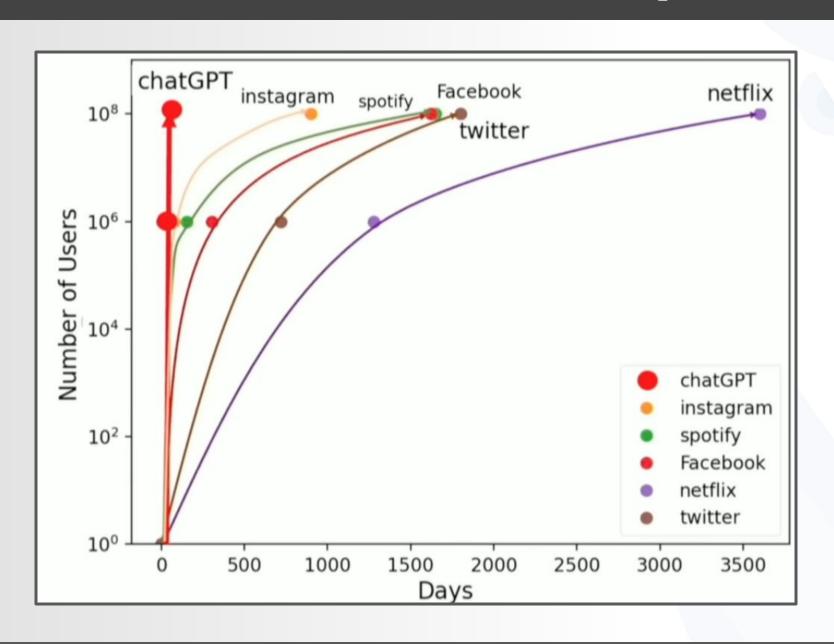
 June 2020: GPT-3 is launched, offering significantly enhanced performance with 175 billion parameters.

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Explosion in Artificial Intelligence

- November 2022: ChatGPT based on GPT-3.5 is released to the public, making AI conversational models more accessible and robust.
- March 2023: ChatGPT-4 is launched, featuring even more advanced capabilities in understanding and generating text, suitable for a wider array of complex tasks.

Time to Reach 1 Million Users (2 Months)



Who of you using a Large Language Model (LLM), like Chat GPT in your personal life, study or business now and how?

Can I use Chat-GPT now?



Let's Get Started (Download)





In just 1 year Evolution of AI VIDEO 2023-2024



Video TODAY



How am I using Chat GPT now?

7 Ways I'm using Al now!

- 1. Brainstorming
- 2. Expanding ideas!
- 3. Responding to emails.
- 4. Improving content that I create!
- 5. Image generation
- 6. Plotting graphs.
- 7. Research.



https://www.canva.com

Design, Editorial & Marketing Tools for Business

https://www.media.io

The swiss army knife of media AI tools

https://relume.io

Websites designed & built faster with AI

https://www.mixo.io

With just a brief description use AI to generate websites in seconds.

https://www.adobe.com/products/firefly.html

Use generative AI and simple text prompts to bring your ideas to life.

https://gamma.app

Create beautiful, engaging content using AI to present your ideas.

https://soundraw.io

Unique AI Music Generation

https://app.yoodli.ai

AI Powered presenting & communication skills coach!

https://piktochart.com

AI-powered infographic maker. Turn any idea into a professionally designed infographic, poster, banner, and more in seconds, tailored to your brand's voice.

https://collov.ai

Creating Home Design at the Speed of Thought! collov.ai uses artificial intelligence to transforms your interior aspirations into stunning, visionary design renderings, merging convenience with aesthetics.

https://quillbot.com/ai-content-detector

Detect AI content!

https://www.synthesia.io

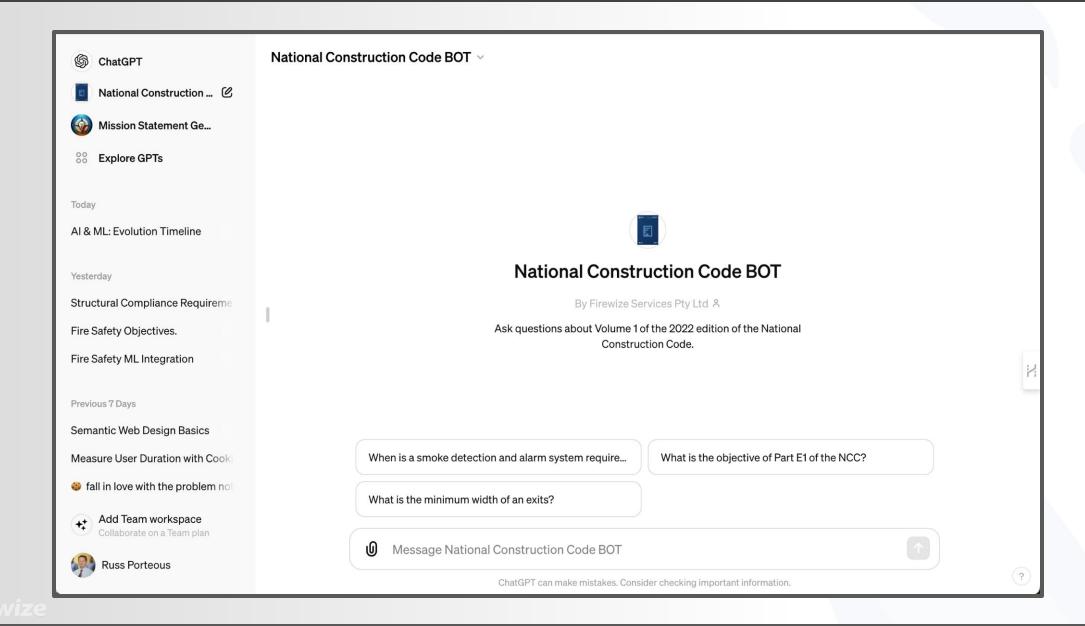
Synthesia is an innovative AI video generator that allows users to create videos with realistic human presenters from text.

https://otter.ai

Never take meeting notes again. Get transcripts, automated summaries, action items, and chat with Otter to get answers from your meetings.

Something practical! Let's build our own GPT!

Chat GPT Examples





We help discerning building owners to safely maintain fire systems & equipment to save people & buildings from fire.





