

Department	Region	Q1 Sales	Q2 Sales	Q3 Sales	Q4 Sales	Total Sales
Electronics Electronics	North	500K	600K	550K	620K	2.27M
	America Europe	400K	420K	410K	430K	1.66M
Clothing Clothing	North	300K	350K	320K	370K	1.34M
	America Europe	250K	280K	260K	290K	1.08M
Home & Kitchen Home & Kitchen	North	200K	250K	220K	270K	940K
	America Europe	150K	170K	160K	180K	660K

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(Redirected from [Generative AI](#))

*Not to be confused with [Artificial general intelligence](#).*



[Théâtre D'opéra Spatial](#), an image made using generative AI

Part of a series on

[Artificial intelligence \(AI\)](#)



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## Glossary

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Generative artificial intelligence (Generative AI, GenAI,<sup>[1]</sup> or GAI) is a subset of [artificial intelligence](#) that uses generative models to produce text, images, videos, or other forms of data.<sup>[2][3][4]</sup> These models [learn](#) the underlying patterns and structures of their [training data](#) and use them to produce new data<sup>[5][6]</sup> based on the input, which often comes in the form of natural language [prompts](#).<sup>[7][8]</sup>

Improvements in [transformer](#)-based [deep neural networks](#), particularly [large language models](#) (LLMs), enabled an [AI boom](#) of generative AI systems in the 2020s. These include [chatbots](#) such as [ChatGPT](#), [Copilot](#), [Gemini](#), and [LLaMA](#); [text-to-image artificial intelligence image generation](#) systems such as [Stable Diffusion](#), [Midjourney](#), and [DALL-E](#); and [text-to-video](#) AI generators such as [Sora](#).<sup>[9][10][11][12]</sup> Companies such as [OpenAI](#), [Anthropic](#), [Microsoft](#), [Google](#), and [Baidu](#) as well as numerous smaller firms have developed generative AI models.<sup>[7][13][14]</sup>

Generative AI has uses across a wide range of industries, including software development, healthcare, finance, entertainment, customer service,<sup>[15]</sup> sales and marketing,<sup>[16]</sup> art, writing,<sup>[17]</sup> fashion,<sup>[18]</sup> and product design.<sup>[19]</sup> However, concerns have been raised about the potential misuse of generative AI such as [cybercrime](#), the use of [fake news](#) or [deepfakes](#) to deceive or manipulate people, and [the mass replacement of human jobs](#).<sup>[20][21]</sup> Intellectual property law concerns also exist around generative models that are trained on and emulate copyrighted works of art.<sup>[22]</sup>

## History

[\[edit\]](#)

*Main article:* [History of artificial intelligence](#)

## Early history

[\[edit\]](#)

Since its inception, researchers in the field have raised philosophical and ethical arguments about the nature of the human mind and the consequences of creating artificial beings with human-like intelligence; these issues have previously been explored by [myth](#), [fiction](#) and [philosophy](#) since antiquity.<sup>[23]</sup> The concept of automated art dates back at least to the [automata](#) of [ancient Greek civilization](#), where inventors such as [Daedalus](#) and [Hero of Alexandria](#) were described as having

designed machines capable of writing text, generating sounds, and playing music.<sup>[24][25]</sup> The tradition of creative automations has flourished throughout history, exemplified by [Maillardet's automaton](#) created in the early 1800s.<sup>[26]</sup> [Markov chains](#) have long been used to model natural languages since their development by Russian mathematician [Andrey Markov](#) in the early 20th century. Markov published his first paper on the topic in 1906,<sup>[27][28]</sup> and analyzed the pattern of vowels and consonants in the novel [Eugeny Onegin](#) using Markov chains. Once a Markov chain is learned on a [text corpus](#), it can then be used as a probabilistic text generator.<sup>[29][30]</sup>

## Academic artificial intelligence

[\[edit\]](#)

The academic discipline of artificial intelligence was established at a research [workshop](#) held at [Dartmouth College](#) in 1956 and has experienced several waves of advancement and optimism in the decades since.<sup>[31]</sup> Artificial Intelligence research began in the 1950s with works like [Computing Machinery and Intelligence](#) (1950) and the 1956 [Dartmouth Summer Research Project on AI](#). Since the 1950s, artists and researchers have used artificial intelligence to create artistic works. By the early 1970s, [Harold Cohen](#) was creating and exhibiting generative AI works created by [AARON](#), the computer program Cohen created to generate paintings.<sup>[32]</sup>

The terms generative AI planning or generative planning were used in the 1980s and 1990s to refer to [AI planning](#) systems, especially [computer-aided process planning](#), used to generate sequences of actions to reach a specified goal.<sup>[33][34]</sup> Generative AI planning systems used [symbolic AI](#) methods such as [state space search](#) and [constraint satisfaction](#) and were a "relatively mature" technology by the early 1990s. They were used to generate crisis actio

Region	Product	2022 Sales	2023 Sales	Growth (%)
North America	Smartphones	1.0M	1.2M	20%
	Laptops	850K	900K	5%
Europe	Smartphones	900K	950K	5%
	Laptops	700K	750K	7%
Asia	Smartphones	1.3M	1.5M	15%
	Laptops	850K	900K	6%
	Tablets	500K	600K	20%

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Category	Metric	2022	2023	Forecast 2024
Revenue	Total	5.0M	5.5M	6.0M
	Growth (%)	7%	10%	8%
Expenses	Total	2.0M	2.2M	2.3M
	Increase (%)	5%	10%	5%
Profit	Total	3.0M	3.3M	3.7M
	Margin (%)	60%	60%	62%

Company	Metric	Q1 2023	Q2 2023	Q3 2023	Q4 2023
TechCorp	Revenue	1.2M	1.5M	1.4M	1.6M
	Expenses	800K	900K	850K	950K
	Profit	400K	600K	550K	650K
MegaCo	Revenue	900K	1.0M	1.1M	1.2M



	Expenses	600K	650K	700K	750K
	Profit	300K	350K	400K	450K