# Generative AI Explained by AI

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VISUALLY EXPLAINED... BY GENERATIVE AI

Generative artificial intelligence (AI) has dominated headlines and earnings calls over recent months. With access to these technologies increasing day-by-day, we asked AI to help demonstrate the power and influence of this new tech trend.

> This robot—and all the visuals in this infographic, including icons were generated using AI software like MidJourney and DALL-E.



The text captions were also generated using AI (ChatGPT).

This image was created on Midjourney using the following text prompt a robot head, portrait, no background, artificial intelligence, minimalist and white aesthetic, futuristic, digital, realistic, 4K



Generative AI is a type of artificial intelligence (AI) that uses machine learning algorithms to create new and original content like images, videos, text, and audio.

Forming a Database

A neural network, consisting of various information or media files like images, text, data, sounds, etc., forms the basis of artificial intelligence.









Inputting a Prompt The user provides the Al with a description or sample of the desired content...



Prompts can be any user-submitted material, like words, numbers, or photos.











3 Generating Content ...and the AI uses its neural network to generate new examples that are similar to the ones it has trained from.

## **Examples of Generative AI Technology**



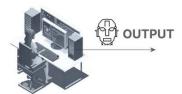
ChatGPT text generation AI



**INPUT PROMPTS** 



"Write a limerick about data taking over the world. Include the word: egg"



"Data taking over the world, it's true It's growing like an egg that's due It's everywhere we go It's taking over slow But it's the future, there's nothing we can do."

Real-Life Applications of this Platform · communications, journalism, publishing, creative writing, writing assistance



Midjourney image generation AI



**INPUT PROMPTS** 



- · a rabbit wearing a sunhat
- · Santa Claus in a blue outfit
- · a watercolor of a red icycle in front of a waterfall









**Real-Life Applications of this Platform** · advertisements, published illustrations, corporate visuals, novel image generation



### Codex

computer coding generation AI



#### **INPUT PROMPTS**



"Write script to change a website's background color in Python"



Here's an example script that uses the 'requests' and 'BeautifulSoup' libraries in Python to change the background

color of a

website:

import requests from bs4 import BeautifulSoup

# send a GET request to the website requests.get("https://yourwebsite.com")

# parse the HTML content soup = BeautifulSoup(response.content, 'html.parser')

# locate the element you want to change the background color of element = soup.find('body')

# add a new style attribute to the element element['style'] = 'background-color: pink;'

# print the modified HTML print(soup.prettify())

## **Real-Life Applications of this Platform**

· web design, software development, coding/ scripting, technology

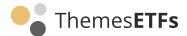


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## AI - The Frontier of the Future



As its name implies, generative artificial intelligence (AI) is capable of "generating" new and original content like text, audio, images, and videos.

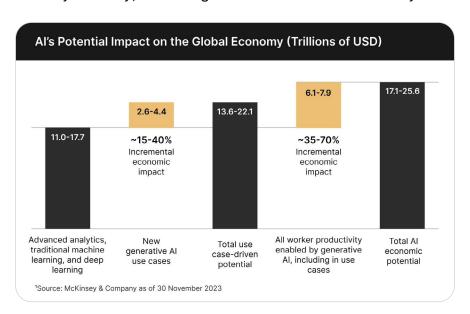
Generative Al is underpinned by machine learning, a process by which computers "learn" through analyzing vast quantities of data, autonomously recognizing patterns without external human input.

Generative AI is now capable of performing a wide set of tasks ranging from:

- Image Processing and Creation
- Natural Language Processing
- Speech Recognition
- Coding

With countless use cases, generative AI has the potential to revolutionize the economy and the many ways in which the world works.

Labor productivity gains from generative AI are expected to deliver at least \$6.1 trillion in incremental value to the global economy annually, according to economic and consultancy estimates.<sup>1</sup>



## **Digital Disruption**

ChatGPT, GPT-3, DALL-E, Stable Diffusion, and other generative AI products have taken the world by storm.

ChatGPT, arguably the most recognizable and popular platform amongst generative AI providers, is a chatbot that produces content based on user input.

Since its launch in 2022, ChatGPT reached its first milestones of 1 million users in just five days and 100 million monthly users in only two months.

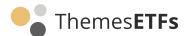


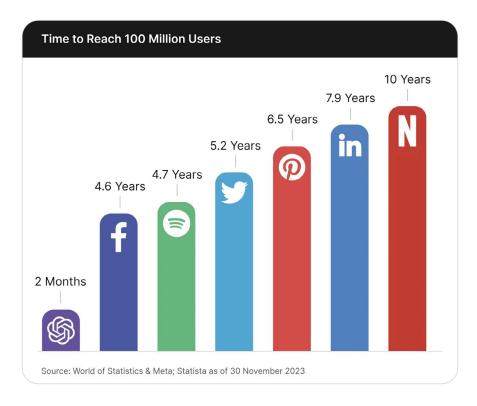
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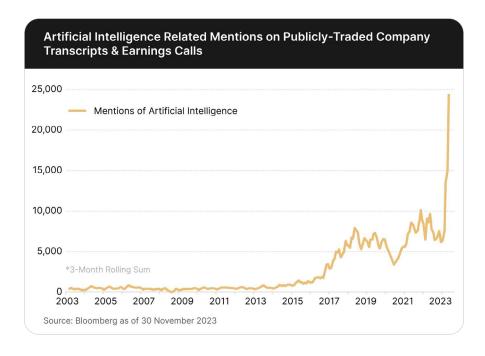






# Capture the Chatter

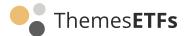
Artificial intelligence (AI) continues to revolutionize industry; 177 companies within the S&P 500 cited "AI" during their last quarterly earnings call.











Our Generative Artificial Intelligence ETF (WISE) seeks to track the Solactive Generative Artificial Intelligence Index (SOLGAIN), which identifies 40 companies that derive their revenues from either:

- Artificial Intelligence
- Data Analytics & Big Data
- Natural Language Processing
- Artificial Intelligence-Driven Services

WISE seeks to provide investment results that correspond generally to the price and yield performance, before fees and expenses, of the SOLGAIN Index.

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