

OpenAI

OpenAI is an [artificial intelligence](#) (AI) research laboratory consisting of OpenAI LP and its parent company, OpenAI Inc. It was founded in December 2015 to advance digital intelligence safely and beneficially. OpenAI is notable for its commitment to openness and collaboration in AI research.

[Generative pretrained transformers](#) (GPTs) and [large language models](#) (LLMs) have revolutionized the field of [natural language processing](#). These models, supported by advanced techniques such as [deep learning](#) and [attention](#) mechanisms, have demonstrated remarkable capabilities for understanding and generating human-like text. [ChatGPT](#), developed by OpenAI, has garnered widespread attention for its ability to engage in coherent and context-aware conversations ¹⁾

Key points about OpenAI:

Mission: OpenAI's mission is to ensure that artificial general intelligence (AGI) benefits all of humanity. They aim to build safe and beneficial AGI or help others achieve this outcome.

Principles: OpenAI is guided by principles that emphasize broadly distributed benefits, long-term safety, technical leadership, and cooperative orientation. They commit to using any influence they obtain over AGI deployment for the benefit of all and avoiding uses that could harm humanity or concentrate power unduly.

Research: OpenAI conducts cutting-edge research in the field of artificial intelligence. They have been responsible for developing several generations of language models, including the GPT (Generative Pre-trained Transformer) series.

GPT Models: The GPT models, including GPT-3, are among the most powerful language models created by OpenAI. These models are pre-trained on massive amounts of text data and can generate coherent and contextually relevant text given a prompt.

Open Source and Collaboration: OpenAI has been involved in the development and release of AI technologies and research papers, promoting collaboration and transparency within the AI community.

Partnerships: OpenAI collaborates with various organizations and institutions to advance AI research and development. They work towards fostering a global community to address global challenges posed by AGI.

GPT, or Generative Pre-trained Transformer, refers to a family of language models developed by [OpenAI](#). These models are designed to understand and generate human-like text based on the input they receive. The “pre-trained” aspect indicates that the models are initially trained on a large corpus of diverse text data before being fine-tuned for specific tasks.

The GPT models use a transformer architecture, which is a type of neural network architecture that excels at handling sequential data, making it well-suited for natural language processing tasks. GPT models are capable of generating coherent and contextually relevant text based on the input they

receive.

Articles

Zhu N, Zhang N, Shao Q, Cheng K, Wu H. OpenAI's [GPT-4o](#) in [surgical oncology](#): Revolutionary [advances](#) in [generative artificial intelligence](#). Eur J Cancer. 2024 May 26;206:114132. doi: 10.1016/j.ejca.2024.114132. Epub ahead of print. PMID: 38810316.

¹⁾

Wu T, He S, Liu J, Sun S, Liu K, Han Q, et al. A brief overview of ChatGPT: the history, status quo and potential future development. IEEE/CAA J. Autom. Sinica. May 2023;10(5):1122-1136.

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