Generative Pre-trained Transformer

(GPT) is a type of large language model (LLM) developed by OpenAI that uses deep learning to understand and generate human-like text. Here's a breakdown of the term:

 Generative The model can generate text — it produces coherent and contextually relevant output such as sentences, paragraphs, or entire documents.

 Pre-trained Before being fine-tuned or used for specific tasks, GPT is pre-trained on a massive dataset of text from books, websites, and articles. This allows the model to learn grammar, facts about the world, and linguistic patterns.

 Transformer GPT is based on the Transformer architecture, a deep learning model introduced in 2017. The transformer allows efficient handling of long-range dependencies in text using a mechanism called self-attention, which helps the model understand the relationships between all words in a sentence, not just adjacent ones.

Summary Definition: GPT is an AI model that uses the Transformer architecture and is trained on large amounts of text to generate human-like responses in natural language.

It is the foundation of tools like ChatGPT, and has been widely used in tasks such as:

Conversational agents

Text completion

Translation

Summarization

Code generation

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