

## Understanding Generative AI

Generative Artificial Intelligence (GenAI) is a subset of artificial intelligence that creates new data such as text, images, audio, or code resembling human-created content.

It uses deep learning models, mainly transformers, trained on massive datasets to understand patterns and structures.

Modern GenAI systems such as OpenAI GPT-4, Google Gemini, and Anthropic Claude are based on Large Language Models (LLMs). These models can summarize, translate, chat, and generate ideas.

Applications of GenAI include education, healthcare, software development, and entertainment. It enhances human creativity and productivity.

However, it also raises ethical concerns like misinformation, bias, and job automation.

The future of GenAI is collaborative ? combining reasoning, emotion recognition, and creativity with human input to build smarter, safer systems.

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