

Generative AI refers to artificial intelligence systems that can create content such as text, images, audio, or code. These systems learn from data and generate new outputs that mimic the learned patterns.

Generative AI is widely used in content creation, data augmentation, code generation, drug discovery, and more. Tools like GPT, DALL-E, and Stable Diffusion are examples of generative AI models.

Challenges include hallucination, bias in outputs, and lack of factual grounding. Retrieval-Augmented Generation (RAG) is one solution to improve the factuality by integrating external documents.