

INTRODUCTION TO GENERATIVE AI

Generative Artificial Intelligence (GenAI) refers to AI systems that can create new content such as text, images, code, audio, and videos.

Popular Generative AI Models:

1. GPT (Generative Pre-trained Transformer)
2. Gemini
3. Claude
4. LLaMA

Applications of Generative AI:

- Chatbots and virtual assistants
- Resume and content generation
- Code generation and debugging
- Document-based question answering
- Image and video generation

What is RAG (Retrieval Augmented Generation)?

RAG is a technique where a language model retrieves relevant information from external documents (like PDFs) before generating an answer.

This helps reduce hallucinations and improves accuracy.

Use Case of PDF Chatbot:

A PDF chatbot allows users to ask questions from documents such as:

- College notes
- Company policies
- Research papers
- User manuals

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