

Sl. No	File Name	Retriever Model	Generation Model	Issues Observed
1	01-rag-langchain	HuggingFace Instruct Embeddings of the PDF saved in FAISS vector database converted into a model	fastchat-t5-3b-v1.0 model from Hugging Face	<p>Embeddings may still perform sub-optimally if the domain-specific terms or specialized content aren't represented adequately by the chosen embedding model.</p> <p>FastChat-T5, while robust and efficient, might still hallucinate or produce plausible yet incorrect responses, particularly if the retrieved context is ambiguous or insufficient.</p>
2	02-rag-langchain-openAI-task-1_3	Open AI Embeddings of the PDF saved in FAISS vector database converted into a model	OpenAI GPT-4o-mini with a predefined LangChain prompt template	<p>Unrelated information can be retrieved if embeddings do not adequately represent the semantic meaning of questions or document chunks.</p> <p>Ambiguous, vague, or overly broad prompts might lead the model to generate unrelated or unfocused responses..</p>