

# Analysis on Multi-Turn Memory Rag Model

- Multi Turn Memory Rag is a conversational memory rag model with conversation storing capability, that help keep flow and interconnected results based on conversation and context.
- Name of the Model File:
  - Memeory\_multiturn\_RAG.ipynb
- Document Used:
  - IB ACIO Job Notification pdf
- Chunking Strategy:
  - Recursive Character Chunking with
    - Chunk size = 500
    - Overlapping = 100
- Vector DB used:
  - FAISS
- Embedding Model used:
  - HuggingFace
    - all-MiniLM-L6-v2
- Model used:
  - Mistral AI's
    - mistral-large-latest
- Memory used for Storing Conversations:
  - ConversationBufferMemory from langchain
- Analysis of Working Flow:
  - Memory is used for storing conversation between User and RAG.
  - Each and every conversations are stored on memory until exit of runtime of RAG.
  - Rag look on memory and context from vector db and give the result based on user query like - i forget about last query, could you generate my last asked queries ?

- Rag will look at memory and give the user their past conversations
- Conversations on Memory persist until exit of runtime, means memory will be wiped after exit of RAG
- User can look and see what conversations are stored at Memory
  - Using memory.buffer or memory.buffer\_as\_message
- Noticed fast performance and accurate answers from RAG.
- Calculated response time by using time module from python.
- Look at Rag\_with\_memory\_conversation excel document for before continues conversations and after some time conversations for data persist on memory when data at buffer or cache
- RAG and relevant reports at :  
[Gen-AI/model\\_project/Progression\\_report\\_Memory\\_analysing at main · sayed2174/Gen-AI](#)

Reported by:

***SAYED MOHAMMED***