Streamlit for web interface:

1) Used streamlit for creating a web interface .

2) User needs to give the email subject and few lines of content .Then RAG (Retrieval augmentation generation) system will search for the relevant content in vector database and augment retrieved content and give it to LLM (groq) to generate mail.

3) Steps to create a streamlit file:

   a) Import libraries for Streamlit (streamlit), data processing (numpy, pandas), FAISS (faiss), language model (langchain_groq), and text embedding (sentence_transformers)

   b) Load the SentenceTransformer model (all-MiniLM-L6-v2) to generate text embeddings for similarity matching.

   c) Defined a text cleaning function

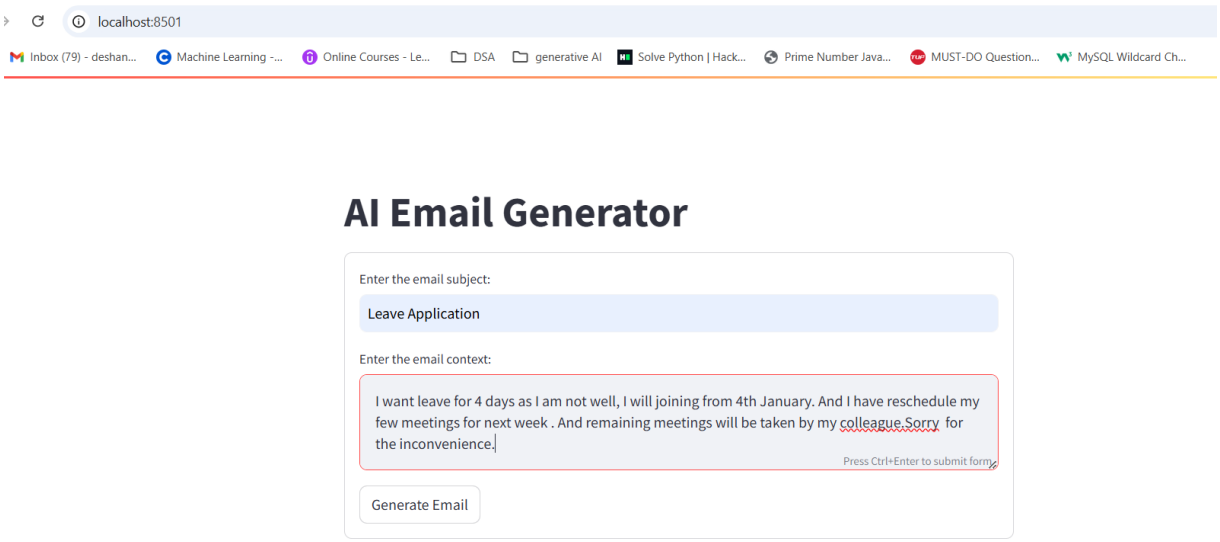
   d) Initialize the Language Model (LLM)

   e) Create a Prompt Template

   f) Build streamlit user interface to create a form with Streamlit, allowing the user to input the subject and context for the email.

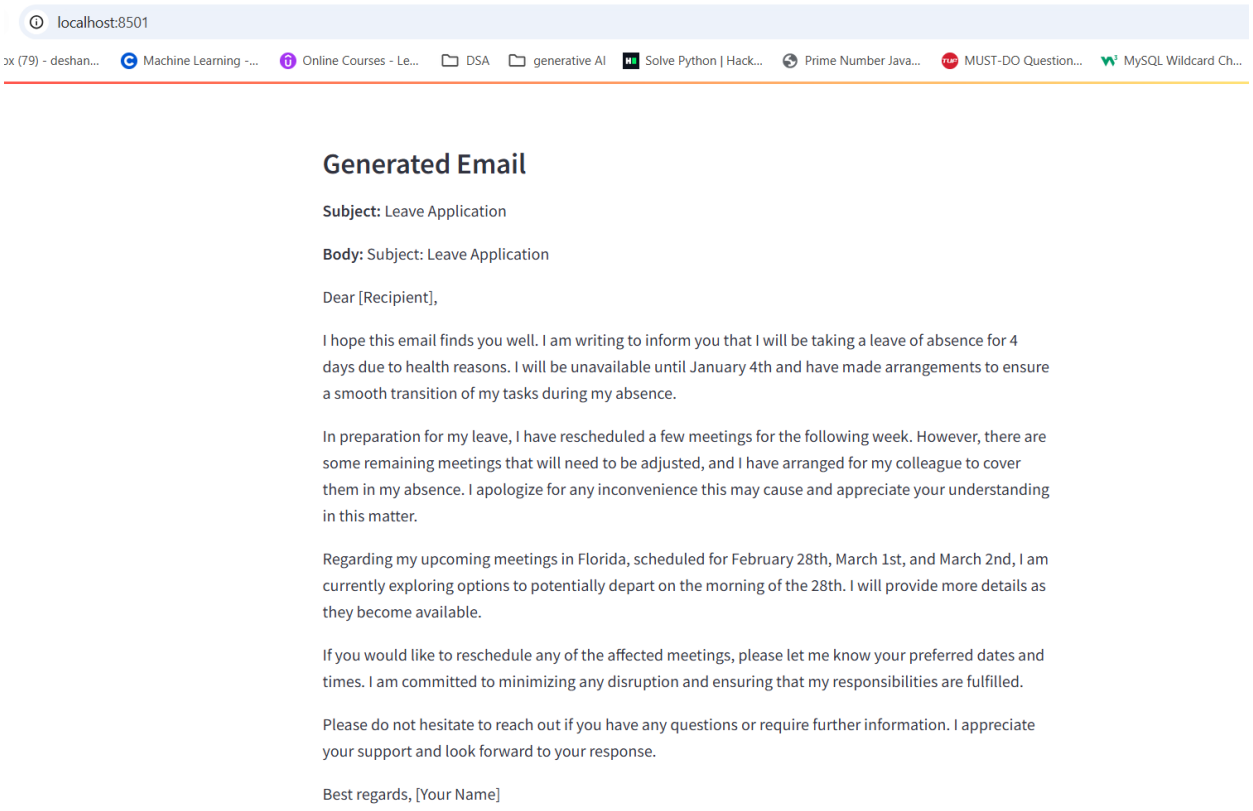
   g) Display the Generated Email in streamlit

4) Sample input :



As you can see, I am running this streamlit python file on my **local host**, and I have given the inputs .

5) Sample Output:



As you can see , I got the generated output based on input provided in **same localhost.**