

Challenges

During the test assignment, I **encountered several challenges** that I would like to share.

First, I want to note that after submitting the repository link, I made some edits to the README file and other minor materials. However, **I did not modify the main notebook** to comply with the submission rules.

One issue was that the repository **is not structured according to standard best practices** due to time constraints. In the future, I plan to **separate the core algorithm**, which handles the chatbot's logic, from the interface code, as well as provide a more detailed explanation of installation steps and environment requirements.

Another challenge was that I worked in Google Colab due to difficulties installing certain libraries in my local environment. As a result, I was **unable to successfully run the interface built with FastAPI**.

The third issue was that I did not have enough time to **fix some errors before submission**. While the **core algorithm functions correctly** according to the requirements, I accidentally **forgot to connect memory when developing the interface**. Therefore, in the notebook version currently in the repository, the chatbot does not retain context. However, **I quickly fixed this issue after submission**, as shown in the attached demo.

Additionally, there is another issue: the chatbot repeats both the user's query and the model's response twice.

Despite these challenges, **I am glad to have gained valuable experience**, especially since this was my first time integrating RAG with memory. Thank you for this opportunity—I look forward to future collaboration!