**Projet E11\_Bot**

**Etudiant 1 : bendaas soundous ……………………………………………………….**

**Etudiant 2 : khattab nessrine………………………………………**

**1-Bot architecture:**

**تركيبة البوت**

**Chatbots: are one of the most popular use-cases for LLMs. The core features of chatbots are that they can have long-running, stateful conversations and can answer**

**user questions using relevant information.**

**-User send a question that question will be sent to the embedding API**

**-Embedding API transform the question to Query embeddings (vectors)are going to take the embeddings of the question and compare with**

**the embeddings of the documents that we have already stored in our knowledge base**

**-those documents becomes our context .**

**-we take the original question and feed too information into our LLM and will get the answer.**

**-We have two deffrents components:**

**\*Embedings for finding the most similar documents.**

**\*LLM generate the reponce in natural language.**

**2-Used packages/ Libraries:**

**المكتبات و الحزم المستعملة**

**we use some libraries:**

**\*Streamlit:is a powerful and user-friendly Python library for quickly developing interactive**

**web applications**

**\*OpenAI:The OpenAI library, also known as the OpenAI Python Library, is a set of tools and APIs providing**

**access to advanced language models and other features developed by OpenAI.**

**\*langchain.chat**

**\*langchain.memory**

**\*langchain.prompts**

**3-Encountered problems:**

**المشاكل التي واجهتها**

**Probleme de variable virtuel python -m venv venv , api key ,des problesmes dans quelque bibs apres le telechargement « no modlo found**