```
In [1]:
         #pip install -U ipykernel
In [2]:
         print("OK!")
       0K!
In [3]:
         pip install pinecone-client
       Requirement already satisfied: pinecone-client in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (3.2.2)
       Requirement already satisfied: certifi>=2019.11.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack
       ages (from pinecone-client) (2024.6.2)
       Requirement already satisfied: tgdm>=4.64.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (f
       rom pinecone-client) (4.66.4)
       Requirement already satisfied: typing-extensions>=3.7.4 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site
       -packages (from pinecone-client) (4.12.2)
       Requirement already satisfied: urllib3>=1.26.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (from pinecone-client) (2.2.1)
       Note: you may need to restart the kernel to use updated packages.
In [4]:
         pip install langchain
       Requirement already satisfied: langchain in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (0.2.
       Requirement already satisfied: PyYAML>=5.3 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr
       om langchain) (6.0.1)
       Requirement already satisfied: SOLAlchemy<3,>=1.4 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa
       ges (from langchain) (2.0.30)
       Requirement already satisfied: aiohttp<4.0.0,>=3.8.3 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pa
       ckages (from langchain) (3.9.5)
       Requirement already satisfied: async-timeout<5.0.0,>=4.0.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/s
       ite-packages (from langchain) (4.0.3)
       Requirement already satisfied: langchain-core<0.3.0,>=0.2.7 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/
       site-packages (from langchain) (0.2.7)
       Requirement already satisfied: langchain-text-splitters<0.3.0,>=0.2.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/
       python3.8/site-packages (from langchain) (0.2.1)
       Requirement already satisfied: langsmith<0.2.0,>=0.1.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site
       -packages (from langchain) (0.1.77)
       Requirement already satisfied: numpy<2,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr
       om langchain) (1.24.4)
       Requirement already satisfied: pydantic<3,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (from langchain) (1.10.16)
       Requirement already satisfied: requests<3,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (from langchain) (2.32.3)
       Requirement already satisfied: tenacity<9.0.0,>=8.1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-p
       ackages (from langchain) (8.3.0)
       Requirement already satisfied: aiosignal>=1.1.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package
       s (from aiohttp<4.0.0,>=3.8.3->langchain) (1.3.1)
       Requirement already satisfied: attrs>=17.3.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (from aiohttp<4.0.0,>=3.8.3->langchain) (23.2.0)
       Requirement already satisfied: frozenlist>=1.1.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packag
       es (from aiohttp<4.0.0,>=3.8.3->langchain) (1.4.1)
       Requirement already satisfied: multidict<7.0,>=4.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack
       ages (from aiohttp<4.0.0,>=3.8.3->langchain) (6.0.5)
       Requirement already satisfied: yarl<2.0,>=1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages
       (from aiohttp<4.0.0,>=3.8.3->langchain) (1.9.4)
       Requirement already satisfied: jsonpatch<2.0,>=1.33 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pac
       kages (from langchain-core<0.3.0,>=0.2.7->langchain) (1.33)
       Requirement already satisfied: packaging<25,>=23.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack
```

agos (from langebain coros0.2.0 - 0.2.7 alangebain) (24.1)

ayes (IIUII Langunalii-Curesv.s.v,>=v.2./->Langunalii) (24.1) Requirement already satisfied: orjson<4.0.0,>=3.9.14 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pa ckages (from langsmith<0.2.0,>=0.1.17->langchain) (3.10.5) Requirement already satisfied: typing-extensions>=4.2.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from pydantic<3,>=1->langchain) (4.12.2) Requirement already satisfied: charset-normalizer<4,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from requests<3,>=2->langchain) (3.3.2) Requirement already satisfied: idna<4,>=2.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (f rom requests<3,>=2->langchain) (3.7) Requirement already satisfied: urllib3<3,>=1.21.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa ges (from requests<3,>=2->langchain) (2.2.1) Requirement already satisfied: certifi>=2017.4.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa ges (from requests<3,>=2->langchain) (2024.6.2) Requirement already satisfied: greenlet!=0.4.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from SQLAlchemy<3,>=1.4->langchain) (3.0.3) Requirement already satisfied: jsonpointer>=1.9 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from jsonpatch<2.0,>=1.33->langchain-core<0.3.0,>=0.2.7->langchain) (3.0.0) Note: you may need to restart the kernel to use updated packages. In [5]: pip install -U langchain-community Requirement already satisfied: langchain-community in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack ages (0.2.5) Requirement already satisfied: PyYAML>=5.3 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr om langchain-community) (6.0.1) Requirement already satisfied: SQLAlchemy<3,>=1.4 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa ges (from langchain-community) (2.0.30) Requirement already satisfied: aiohttp<4.0.0,>=3.8.3 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pa ckages (from langchain-community) (3.9.5) Requirement already satisfied: dataclasses-json<0.7,>=0.5.7 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/ site-packages (from langchain-community) (0.5.14) Requirement already satisfied: langchain<0.3.0,>=0.2.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/sitepackages (from langchain-community) (0.2.5) Requirement already satisfied: langchain-core<0.3.0,>=0.2.7 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/ site-packages (from langchain-community) (0.2.7) Requirement already satisfied: langsmith<0.2.0,>=0.1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/sitepackages (from langchain-community) (0.1.77) Requirement already satisfied: numpy<2,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr om langchain-community) (1.24.4) Requirement already satisfied: requests<3,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from langchain-community) (2.32.3) Requirement already satisfied: tenacity<9.0.0,>=8.1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-p ackages (from langchain-community) (8.3.0) Requirement already satisfied: aiosignal>=1.1.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from aiohttp<4.0.0,>=3.8.3->langchain-community) (1.3.1) Requirement already satisfied: attrs>=17.3.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from aiohttp<4.0.0,>=3.8.3->langchain-community) (23.2.0) Requirement already satisfied: frozenlist>=1.1.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packag es (from aiohttp<4.0.0,>=3.8.3->langchain-community) (1.4.1) Requirement already satisfied: multidict<7.0,>=4.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack ages (from aiohttp<4.0.0,>=3.8.3->langchain-community) (6.0.5) Requirement already satisfied: yarl<2.0,>=1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from aiohttp<4.0.0,>=3.8.3->langchain-community) (1.9.4) Requirement already satisfied: async-timeout<5.0,>=4.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/sitepackages (from aiohttp<4.0.0,>=3.8.3->langchain-community) (4.0.3) Requirement already satisfied: marshmallow<4.0.0,>=3.18.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/si te-packages (from dataclasses-json<0.7,>=0.5.7->langchain-community) (3.21.3) Requirement already satisfied: typing-inspect<1,>=0.4.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from dataclasses-json<0.7,>=0.5.7->langchain-community) (0.9.0) Requirement already satisfied: langchain-text-splitters<0.3.0,>=0.2.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/ python3.8/site-packages (from langchain<0.3.0,>=0.2.5->langchain-community) (0.2.1) Requirement already satisfied: pydantic<3,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from langchain<0.3.0,>=0.2.5->langchain-community) (1.10.16) Requirement already satisfied: jsonpatch<2.0,>=1.33 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pac

ages (from langchain-core<0.3.0,>=0.2.7->langchain-community) (24.1) Requirement already satisfied: orjson<4.0.0,>=3.9.14 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pa ckages (from langsmith<0.2.0,>=0.1.0->langchain-community) (3.10.5) Requirement already satisfied: charset-normalizer<4,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from requests<3,>=2->langchain-community) (3.3.2) Requirement already satisfied: idna<4,>=2.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (f rom reguests<3,>=2->langchain-community) (3.7) Requirement already satisfied: urllib3<3,>=1.21.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa ges (from requests<3,>=2->langchain-community) (2.2.1) Requirement already satisfied: certifi>=2017.4.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa qes (from requests<3,>=2->langchain-community) (2024.6.2) Requirement already satisfied: typing-extensions>=4.6.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from SQLAlchemy<3,>=1.4->langchain-community) (4.12.2) Requirement already satisfied: greenlet!=0.4.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from SQLAlchemy<3,>=1.4->langchain-community) (3.0.3) Requirement already satisfied: jsonpointer>=1.9 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from jsonpatch<2.0,>=1.33->langchain-core<0.3.0,>=0.2.7->langchain-community) (3.0.0) Requirement already satisfied: mypy-extensions>=0.3.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-p ackages (from typing-inspect<1,>=0.4.0->dataclasses-json<0.7,>=0.5.7->langchain-community) (1.0.0) Note: you may need to restart the kernel to use updated packages. In [6]: from langchain import PromptTemplate from langchain.chains import RetrievalQA from langchain.embeddings import HuggingFaceEmbeddings from langchain.vectorstores import Pinecone import pinecone from langchain.document\_loaders import PyPDFLoader, DirectoryLoader from langchain.text splitter import RecursiveCharacterTextSplitter from langchain.prompts import PromptTemplate from langchain.llms import CTransformers /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages/pinecone/data/index.py:1: TqdmWarning: IProgress not found. Please update jupyter and ipywidgets. See https://ipywidgets.readthedocs.io/en/stable/user\_install.html from tgdm.autonotebook import tgdm In [7]: PINECONE API KEY = "2a646a8b-58b8-4e28-84c9-ca66ff586687" PINECONE API ENV = "Serverless" In [8]: #Extract data from the PDF def load\_pdf(data): loader = DirectoryLoader(data, qlob="\*.pdf", loader cls=PyPDFLoader) documents = loader.load() return documents In [9]: extracted\_data = load\_pdf("/Users/rashmi/Desktop/End-to-end-Medical-Chatbot-using-Llama2/data") In [10]: | # extracted\_data In [11]: | #Create text chunks def text split(extracted data): text splitter = RecursiveCharacterTextSplitter(chunk size = 500, chunk overlap = 20) text chunks = text splitter.split documents(extracted data)

Requirement already satisfied: packaging<25,>=23.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack

kages (trom langchain-core<0.3.0,>=0.2./->langchain-community) (1.33)

```
return text_chunks
In [12]:
          text chunks = text split(extracted data)
          print("length of my chunk:", len(text_chunks))
        length of my chunk: 7020
In [13]:
          # text_chunks
In [14]:
         #download embedding model
          def download_hugging_face_embeddings():
              embeddings = HuggingFaceEmbeddings(model_name="sentence-transformers/all-MiniLM-L6-v2")
              return embeddings
In [15]:
          embeddings = download_hugging_face_embeddings()
        /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages/langchain_core/_api/deprecation.py:139: LangChain
        DeprecationWarning: The class `HuggingFaceEmbeddings` was deprecated in LangChain 0.2.2 and will be removed in 0.3.
        0. An updated version of the class exists in the langchain-huggingface package and should be used instead. To use i
        t run `pip install -U langchain-huggingface` and import as `from langchain_huggingface import HuggingFaceEmbeddings
          warn_deprecated(
In [16]:
         embeddings
Out[16]: HuggingFaceEmbeddings(client=SentenceTransformer(
           (0): Transformer({'max_seq_length': 256, 'do_lower_case': False}) with Transformer model: BertModel
           (1): Pooling({'word_embedding_dimension': 384, 'pooling_mode_cls_token': False, 'pooling_mode_mean_tokens': Tru
         e, 'pooling_mode_max_tokens': False, 'pooling_mode_mean_sqrt_len_tokens': False})
           (2): Normalize()
         ), model_name='sentence-transformers/all-MiniLM-L6-v2', cache_folder=None, model_kwargs={}, encode_kwargs={}, mult
         i process=False, show progress=False)
In [17]:
          query_result = embeddings.embed_query("Hello world")
          print("Length", len(query_result))
        Length 384
In [18]:
         # query result
In [19]:
          import os
          import pinecone
          # Set the environment variables for Pinecone API key and environment
          os.environ['PINECONE_API_KEY'] = "2a646a8b-58b8-4e28-84c9-ca66ff586687"
          os.environ['PINECONE ENV'] = "Serverless"
In [20]:
          pinecone_client=pinecone.Pinecone(api_key=PINECONE_API_KEY,environment=PINECONE_API_ENV)
In [26]:
          #from pinecone import Pinecone
          #from transformers import AutoTokenizer, AutoModel
          #import torch
```

huggingface/tokenizers: The current process just got forked, after parallelism has already been used. Disabling par allelism to avoid deadlocks... To disable this warning, you can either: - Avoid using `tokenizers` before the fork if possible - Explicitly set the environment variable TOKENIZERS\_PARALLELISM=(true | false) Requirement already satisfied: langchain-pinecone in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packa ges (0.1.1) WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by 'ReadTimeoutError("HTTPSConnectionPool(host='pypi.org', port=443): Read timed out. (read timeout=15)")': /simple/la ngchain-pinecone/ WARNING: Retrying (Retry(total=3, connect=None, read=None, redirect=None, status=None)) after connection broken by 'ConnectTimeoutError(<pip.\_vendor.urllib3.connection.HTTPSConnection object at 0x7ff2265c7fd0>, 'Connection to pyp i.org timed out. (connect timeout=15)')': /simple/langchain-pinecone/ WARNING: Retrying (Retry(total=2, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<pip. vendor.urllib3.connection.HTTPSConnection object at 0x7ff2265fb250>: Failed to establish a new connection: [Errno 8] nodename nor servname provided, or not known')': /simple/langchain-pinecone/ WARNING: Retrying (Retry(total=1, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<pip.\_vendor.urllib3.connection.HTTPSConnection object at 0x7ff2265fb400>: Failed to establish a new connection: [Errno 8] nodename nor servname provided, or not known')': /simple/langchain-pinecone/ WARNING: Retrying (Retry(total=0, connect=None, read=None, redirect=None, status=None)) after connection broken by 'NewConnectionError('<pip.\_vendor.urllib3.connection.HTTPSConnection object at 0x7ff2265fb5b0>: Failed to establish a new connection: [Errno 8] nodename nor servname provided, or not known')': /simple/langchain-pinecone/ Requirement already satisfied: langchain-core<0.3,>=0.1.52 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/s ite-packages (from langchain-pinecone) (0.2.7) Requirement already satisfied: numpy<2,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr om langchain-pinecone) (1.24.4) Requirement already satisfied: pinecone-client<4.0.0,>=3.2.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3. 8/site-packages (from langchain-pinecone) (3.2.2) Requirement already satisfied: PyYAML>=5.3 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (fr om langchain-core<0.3,>=0.1.52->langchain-pinecone) (6.0.1) Requirement already satisfied: isonpatch<2.0,>=1.33 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pac kages (from langchain-core<0.3,>=0.1.52->langchain-pinecone) (1.33) Requirement already satisfied: langsmith<0.2.0,>=0.1.75 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from langchain-core<0.3,>=0.1.52->langchain-pinecone) (0.1.77) Requirement already satisfied: packaging<25,>=23.2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack ages (from langchain-core<0.3,>=0.1.52->langchain-pinecone) (24.1) Requirement already satisfied: pydantic<3,>=1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from langchain-core<0.3,>=0.1.52->langchain-pinecone) (1.10.16) Requirement already satisfied: tenacity<9.0.0,>=8.1.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-p ackages (from langchain-core<0.3,>=0.1.52->langchain-pinecone) (8.3.0) Requirement already satisfied: certifi>=2019.11.17 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pack ages (from pinecone-client<4.0.0,>=3.2.2->langchain-pinecone) (2024.6.2) Requirement already satisfied: tqdm>=4.64.1 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (f rom pinecone-client<4.0.0,>=3.2.2->langchain-pinecone) (4.66.4) Requirement already satisfied: typing-extensions>=3.7.4 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from pinecone-client<4.0.0,>=3.2.2->langchain-pinecone) (4.12.2) Requirement already satisfied: urllib3>=1.26.0 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from pinecone-client<4.0.0,>=3.2.2->langchain-pinecone) (2.2.1) Requirement already satisfied: isonpointer>=1.9 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-package s (from jsonpatch<2.0,>=1.33->langchain-core<0.3,>=0.1.52->langchain-pinecone) (3.0.0) Requirement already satisfied: orison<4.0.0,>=3.9.14 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-pa ckages (from langsmith<0.2.0,>=0.1.75->langchain-core<0.3,>=0.1.52->langchain-pinecone) (3.10.5) Requirement already satisfied: requests<3,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (from langsmith<0.2.0,>=0.1.75-> langchain-core<0.3,>=0.1.52-> langchain-pinecone)Requirement already satisfied: charset-normalizer<4,>=2 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site -packages (from requests<3,>=2->langsmith<0.2.0,>=0.1.75->langchain-core<0.3,>=0.1.52->langchain-pinecone) (3.3.2)Requirement already satisfied: idna<4,>=2.5 in /Users/rashmi/anaconda3/envs/mchatbot/lib/python3.8/site-packages (f rom requests<3,>=2->langsmith<0.2.0,>=0.1.75->langchain-core<0.3,>=0.1.52->langchain-pinecone) (3.7) Note: you may need to restart the kernel to use updated packages.

```
index name = "mcnatpot"
          docsearch=Pinecone.from_texts([t.page_content for t in text_chunks], embeddings, index_name=index_name)
In [32]:
          # initialize Pinecone index directly
          \#docsearch = pinecone.Index(index name).upsert([(t.page content, embeddings.embed text(t.page content)) for t in t
        TypeError
                                                  Traceback (most recent call last)
        Cell In[32], line 3
              1 # Create the index name and initialize Pinecone index directly
              2 index name = "mchatbot"
        ----> 3 docsearch = pinecone.Index(index_name).upsert([(t.page_content, embeddings.embed_text(t.page_content)) for
        t in text_chunks])
        TypeError: __init__() missing 1 required positional argument: 'host'
In [23]:
          #If we already have an index we can load it like this
          docsearch=Pinecone.from_existing_index(index_name, embeddings)
          query = "What are Allergies"
          docs=docsearch.similarity_search(query, k=3)
          print("Result", docs)
        Result [Document(page_content="GALE ENCYCLOPEDIA OF MEDICINE 2 117Allergies\nAllergic rhinitis is commonly triggere
        d by\nexposure to household dust, animal fur,or pollen. The foreign substance thattriggers an allergic reaction is
        calledan allergen.\nThe presence of an allergen causes the\nbody's lymphocytes to begin producingIgE antibodies. Th
        e lymphocytes of an allergy sufferer produce an unusuallylarge amount of IgE.\nIgE molecules attach to mast\ncells,
        which contain histamine.HistaminePollen grains\nLymphocyte\nFIRST EXPOSURE"), Document(page_content='allergens are
        the following:\n• plant pollens\n• animal fur and dander\n• body parts from house mites (microscopic creatures\nfou
        nd in all houses)\n• house dust• mold spores• cigarette smoke• solvents• cleaners\nCommon food allergens include th
        e following:\n• nuts, especially peanuts, walnuts, and brazil nuts\n• fish, mollusks, and shellfish• eggs• wheat• m
        ilk• food additives and preservatives\nThe following types of drugs commonly cause aller-\ngic reactions:\n• penici
        llin or other antibiotics'), Document(page_content='itchy, scratchy nose, eyes, and throat common in aller-gic rhin
        itis.\nThe number of possible airborne allergens is enor-')]
In [24]:
          prompt_template="""
          Use the following pieces of information to answer the user's question.
          If you don't know the answer, just say that you don't know, don't try to make up an answer.
          Context: {context}
          Ouestion: {question}
          Only return the helpful answer below and nothing else.
          Helpful answer:
          PROMPT=PromptTemplate(template=prompt_template, input_variables=["context", "question"])
          chain type kwarqs={"prompt": PROMPT}
In [28]:
          llm=CTransformers(model="/Users/rashmi/Desktop/End-to-end-Medical-Chatbot-using-Llama2/model/llama-2-7b-chat.ggmlv
                            model type="llama",
                            config={'max_new_tokens':512,
                                    'temperature':0.8})
```

Response: It is possible that undulant fever can be exhausting because it can cause symptoms such as high fever, shivering, drenching sweats, headache, poor appetite, backache, weakness, and depression. In rare cases, the diseas e can become severe enough to require immediate medical attention, including a visit to an emergency room or hospit alization.