```
1
               !pip install pysqlite3
                !pip install pysqlite3-binary
     3
               !pip install pypdf
               !pip install -U langchain-community
Requirement already satisfied: tenacity!=8.4.0,<10,>=8.1.0 in /usr/local/lib/python3.11/dist-packages (from langchain-
           Collecting dataclasses-json<0.7,>=0.5.7 (from langchain-community)
           Downloading dataclasses_json-0.6.7-py3-none-any.whl.metadata (25 kB) Collecting pydantic-settings<3.0.0,>=2.4.0 (from langchain-community)
                {\tt Downloading\ pydantic\_settings-2.8.1-py3-none-any.whl.metadata\ (3.5\ kB)}
           Requirement already satisfied: langsmith<0.4,>=0.1.125 in /usr/local/lib/python3.11/dist-packages (from langchain-comm
           Collecting httpx-sse<1.0.0,>=0.4.0 (from langehain-community)
                Downloading httpx sse-0.4.0-py3-none-any.whl.metadata (9.0 kB)
           Requirement already satisfied: numpy<3,>=1.26.2 in /usr/local/lib/python3.11/dist-packages (from langchain-community)
           Requirement already satisfied: aiohappyeyeballs>=2.3.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,
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           Requirement already \ satisfied: \ multidict < 7.0, >= 4.5 \ in \ /usr/local/lib/python 3.11/dist-packages \ (from \ aiohttp < 4.0.0, >= 3.0.0 \ aiohttp < 4.0.0, >= 3.0.0 \ aiohttp < 4.0.0, >= 3.0.0 \ aiohttp < 4.0.0 \ aiohttp
           Requirement already satisfied: propcache>=0.2.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3
           Requirement already \ satisfied: \ yarl < 2.0, >= 1.17.0 \ in \ /usr/local/lib/python \\ 3.11/dist-packages \ (from \ aiohttp < 4.0.0, >= 3.8.0) \\ 2.0.0 \ in \ /usr/local/lib/python \\ 3.11/dist-packages \ (from \ aiohttp < 4.0.0, >= 3.8.0) \\ 3.0.0 \ in \ /usr/local/lib/python \\ 3.0.0 \ in \ /usr/local/lib
           Collecting marshmallow<4.0.0,>=3.18.0 (from dataclasses-json<0.7,>=0.5.7->langchain-community)
                Downloading marshmallow-3.26.1-py3-none-any.whl.metadata (7.3 kB)
           Collecting typing-inspect<1,>=0.4.0 (from dataclasses-json<0.7,>=0.5.7->langchain-community)
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           Requirement already satisfied: requests-toolbelt<2.0.0,>=1.0.0 in /usr/local/lib/python3.11/dist-packages (from langsm
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           Collecting python-dotenv>=0.21.0 (from pydantic-settings<3.0.0,>=2.4.0->langchain-community)
                Downloading python_dotenv-1.0.1-py3-none-any.whl.metadata (23 kB)
           Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=
           Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain
           Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->lan Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->lan
           Requirement already \ satisfied: \ greenlet! = 0.4.17 \ in \ /usr/local/lib/python 3.11/dist-packages \ (from \ SQLAlchemy < 3, >= 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.4. > 1.
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           Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-packages (from httpx<1,>=0.23.0->langsm
           Requirement already \ satisfied: \ h11<0.15,>=0.13 \ in \ /usr/local/lib/python3.11/dist-packages \ (from \ httpcore==1.*->httpx<1.00, \ https://dist-packages \ (from \ https://dist-packages \ (f
           Requirement already satisfied: jsonpointer>=1.9 in /usr/local/lib/python3.11/dist-packages (from jsonpatch<2.0,>=1.33-
           Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.11/dist-packages (from pydantic<3.0.0,
           Requirement already satisfied: pydantic-core==2.27.2 in /usr/local/lib/python3.11/dist-packages (from pydantic<3.0.0,>
           Collecting mypy-extensions>=0.3.0 (from typing-inspect<1,>=0.4.0->dataclasses-json<0.7,>=0.5.7->langchain-community)
                Downloading mypy_extensions-1.0.0-py3-none-any.whl.metadata (1.1 kB)
           Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-packages (from anyio->httpx<1,>=0.23.0->
           Downloading langchain_community-0.3.19-py3-none-any.whl (2.5 MB)
                                                                                                                                     2.5/2.5 MB 47.0 MB/s eta 0:00:00
           Downloading dataclasses_json-0.6.7-py3-none-any.whl (28 kB)
           Downloading httpx_sse-0.4.0-py3-none-any.whl (7.8 kB)
           Downloading pydantic_settings-2.8.1-py3-none-any.whl (30 kB)
           Downloading marshmallow-3.26.1-py3-none-any.whl (50 kB)
                                                                                                                                    50.9/50.9 kB 5.0 MB/s eta 0:00:00
           Downloading python_dotenv-1.0.1-py3-none-any.whl (19 kB)
           Downloading typing inspect-0.9.0-py3-none-any.whl (8.8 kB)
           Downloading mypy\_extensions-1.0.0-py3-none-any.whl (4.7 kB)
           Installing collected packages: python-dotenv, mypy-extensions, marshmallow, httpx-sse, typing-inspect, pydantic-settin Successfully installed dataclasses-json-0.6.7 httpx-sse-0.4.0 langchain-community-0.3.19 marshmallow-3.26.1 mypy-exten
    1 from langchain.document loaders import PyPDFLoader
    \hbox{2 from langchain.text\_splitter import RecursiveCharacterTextSplitter}\\
     3 from langchain.embeddings import OpenAIEmbeddings
    4 import pysglite3
    5 import sys
              # Load and split the pdf
               pdf loader = PyPDFLoader("/content/the nestle hr policy pdf 2012.pdf")
               pdf_pages = pdf_loader.load_and_split()
     4
               print(len(pdf_pages))
→ 8
    1 #Split the PDF pages into smaller chunks and print the number of chunks.
    2 doc_splitter = RecursiveCharacterTextSplitter(chunk_size=1024, chunk_overlap=64)
     3 docs = doc splitter.split documents(pdf pages)
    4 doc_list = [doc.page_content for doc in docs]
    5 print(doc_list[1])
```

```
→ Policy
    Mandatory
    September 20
    12
    Issuing departement
    Hum
    an Resources
    Target audience
    All
     employees
    Approver
    Executive Board, Nestlé S.A.
    Repository
    All Nestlé Principles and Policies, Standards and
    Guidelines can be found in the Centre online repository at:
    http://intranet.nestle.com/nestledocs
    Copyright and confidentiality
    l rights belong to Nestec Ltd., Vevey, Switzerland.
    © 2012, Nestec Ltd.
    Design
    Nestec Ltd., Corporate Identity & Design,
    Vevey, Switzerland
    Production
    brain'print GmbH, Switzerland
    Paper
    This report is printed on BVS, a paper produced
    from well-managed forests and other controlled sources certified by the Forest Stewardship Council (FSC).
```

Create vector representations for text chunks using Chroma dB and OpenAI's embeddings.

```
1 !pip install chromadb openai
2 !pip install tiktoken
```



```
Requirement already satisfied: certifi>=201/.4.1/ in /usr/local/lib/python3.11/dist-packages (from requests>=2.26.0->t_
    Downloading tiktoken-0.9.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.2 MB)
                                                 - 1.2/1.2 MB 19.6 MB/s eta 0:00:00
    Installing collected packages: tiktoken
    Successfully installed tiktoken-0.9.0
 \ensuremath{\mathbf{1}} Start coding or \underline{\ensuremath{\mathsf{generate}}} with AI.
 1 __import__('pysqlite3')
 2 import sys
 3 sys.modules['sqlite3'] = sys.modules.pop('pysqlite3')
 1 import chromadb
 2 from langchain.vectorstores import Chroma
 3 from langchain.chains import RetrievalQA
 4 from langchain.chat_models import ChatOpenAI
 1 Start coding or generate with AI.
    # Initilize the OpenAI Embedding model
     embedding_model = OpenAIEmbeddings()
 1 # Create a Chroma vector store from text chunks
 2 vector store = Chroma.from texts(texts=doc list, embedding=embedding model, persist directory="./chroma db")
 1 vector_store.persist()
🚌 <ipython-input-14-26le6ea3744e>:1: LangChainDeprecationWarning: Since Chroma 0.4.x the manual persistence method is no l
      vector_store.persist()
 1 ## Create mv own querv
 2 query = "What is working conditions?"
 4 #Get the similar embedding from the vector_store
 5 results = vector_store.similarity_search(query, k=3)
  1
     for doc in results:
  2
         print(doc.page_content)
  3
          print("\n....")
→ of mutual trust. HR ensures that a respectful
    dialogue is present and the voice of the
    employees is heard.
    Corporate policy:
    Policy on Conditions of Work and Employment
     Employment and working conditions
    and Wellness Company
    As such, we provide flexible working
    conditions whenever possible and encourage our
    employees to have outside interests especially
    community involvement.
    Those with line management responsibilities
    are required to take personal ownership of safety
    and health within their area of responsibility and
    are encouraged to develop their capability in this
    area
    Nestlé's commitment however goes beyond
    its own employees. We care about all people
    working inside or outside our premises under
    contractual obligations with service providers
    and we insist that they also take steps so that
    adequate working conditions are made available
    to them.
    We believe that it is essential to build a relationship based on trust and respect of
    employees at all levels. We do not tolerate any
    form of harassment or discrimination.
    Therefore, managers are committed to build
    and sustain, with their teams, an environment
    of mutual trust. HR ensures that a respectful
    important matters such as Creating Shared Value,
    the health and safety in the workplace and our
    concern for the environment.
    The Company and employee representatives
    are expected to make all necessary efforts
    to develop fair and constructive dialogues,
```

```
overcome the difficulties that they might
    encounter, reach sustainable agreements and
    implement them.
    Corporate policy:
    The Nestlé Employee Relations Policy
     Employee relations
    The Human Resources management described
    in this document requires and supports an
    organisation "on the move".
    Nestlé is committed to continue the journey
    to establishing flat and flexible structures with
    minimal levels of management and broad spans
    of control, which enable people development,
    increase efficiency, and ease implementation
    of our "Nestlé Management and Leadership
    Principles"
    Less hierarchical layers call for increased
    cooperation between colleagues. This is what
 1 #Define the chat-upt model
 2 llm = ChatOpenAI(model_name="gpt-3.5-turbo", temperature=0)
 4 # Retrieve similar embedding from chroma db i.e vector_store
 5 retriever = vector_store.as_retriever(search_type="similarity", search_kwargs={"k": 3})
 6
 7 # Define RetrievalQA which takes user query and find the similar content from pdfs and send to chat-gpt model to get the
 8 # answer
 9 qa_chain = RetrievalQA.from_chain_type(
 10
               llm=llm,
 11
               chain type="stuff",
 12
               retriever=retriever,
 13
               return_source_documents=True
14
           )
    <ipython-input-17-01102e2510f0>:2: LangChainDeprecationWarning: The class `ChatOpenAI` was deprecated in LangChain 0.0.
      llm = ChatOpenAI(model_name="gpt-3.5-turbo", temperature=0)
 1 response = qa_chain({"query": query})
   <ipython-input-18-7e13e1e84d4b>:1: LangChainDeprecationWarning: The method `Chain.__call__` was deprecated in langchain
      response = qa_chain({"query": query})
 1 response['result']
    'Working conditions refer to the environment in which employees carry out their daily tasks. This includes factors such
    as the physical work environment, hours of work, safety regulations, benefits, and overall atmosphere in the workplace.
    In the context provided, working conditions are emphasized as an important aspect of Nestlé's corporate policy, ensuring
    n that employees have a safe, respectful, and supportive environment to work in.
Implement the Gradio to show the demo
```

```
1 !pip install gradio
2 !pip install --upgrade gradio
```

 $\overline{2}$ 

```
Requirement already satisfied: tomlkit<0.14.0,>=0.12.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.13.
Requirement already satisfied: typer<1.0,>=0.12 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.15.2)
Requirement already satisfied: typing-extensions~=4.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (4.12.2
Requirement already satisfied: uvicorn>=0.14.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.34.0)
Requirement already satisfied: fsspec in /usr/local/lib/python3.11/dist-packages (from gradio-client==1.7.2->gradio) (
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Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio) (3.
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio)
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Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1->gradio) (
Requirement already satisfied: h11<0.15,>=0.13 in /usr/local/lib/python3.11/dist-packages (from httpcore==1.*->httpx>=
Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->grad
Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->grad
Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0->gradio)
Requirement already \ satisfied: \ tzdata>=2022.7 \ in \ /usr/local/lib/python 3.11/dist-packages \ (from \ pandas<3.0,>=1.0->grading \ part of the 
Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.11/dist-packages (from pydantic>=2.0->
Requirement already satisfied: pydantic-core==2.27.2 in /usr/local/lib/python3.11/dist-packages (from pydantic>=2.0->g
Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio)
Requirement already satisfied: shellingham>=1.3.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->g
Requirement already satisfied: rich>=10.11.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->panda
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0->t
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0-
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->hug
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->huggingfa
Requirement already \ satisfied: \ mdurl \sim = 0.1 \ in \ /usr/local/lib/python 3.11/dist-packages \ (from \ markdown-it-py>= 2.2.0-> rich \ markdown-it-py>=
```

```
1 import gradio as gr
1
    def greet(query):
2
         response = qa_chain({"query": query})
3
         return response['result']
5
6
    chat_demo = gr.Interface(
7
        fn=greet,
8
         inputs=['text'],
         outputs=['text']
9
10
    )
```

1 chat\_demo.launch(share=True)

Colab notebook detected. To show errors in colab notebook, set debug=True in launch()
\* Running on public URL: <a href="https://ef628e6efceb812379.gradio.live">https://ef628e6efceb812379.gradio.live</a>

This share link expires in 72 hours. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal

output

query

What about the training and learning part in the Nestle company?

Clear Submit

At Nestlé, learning is a significant part of the company culture. Employees are encouraged to continuously upgrade their knowledge and skills. The company determines training and development priorities, and the responsibility for implementing these actions is shared between employees, line managers, and Human Resources. Experience and on-the-job training are primary sources of learning, with managers guiding and coaching employees to succeed in their current roles. Nestlé also offers a comprehensive range of training activities and methodologies to support

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1 Start coding or generate with AI.