

```
pip install streamlit
```

```
import streamlit as st
```

```
import os
```

```
import langchain
```

```
pip install langchain_community
```

```
pip install langchain_google_genai
```

```
from langchain.text_splitter import RecursiveCharacterTextSplitter
from langchain_google_genai import GoogleGenerativeAIEmbeddings , ChatGoogleGenerativeAI
```

```
pip install langchain_chroma
```

```
from langchain_chroma import Chroma
```

```
pip install langchain.vectorstores
```

```
➦ ERROR: Could not find a version that satisfies the requirement langchain.vectorstores (from versions: none)
ERROR: No matching distribution found for langchain.vectorstores
```

```
from langchain.vectorstores import Pinecone
```

```
pip install langchain_pinecone
```

```
from langchain_pinecone import PineconeVectorStore
```

```
pip install langchain.chains
```

```
➦ ERROR: Could not find a version that satisfies the requirement langchain.chains (from versions: none)
ERROR: No matching distribution found for langchain.chains
```

```
from langchain.chains import create_retrieval_chain
```

```
pip install langchain.chains.combine_documents
```

```
➦ ERROR: Could not find a version that satisfies the requirement langchain.chains.combine_documents (from versions: none)
ERROR: No matching distribution found for langchain.chains.combine_documents
```

```
from langchain.chains.combine_documents import create_stuff_documents_chain
```

```
pip install langchain_core.prompts
```

```
➦ ERROR: Could not find a version that satisfies the requirement langchain_core.prompts (from versions: none)
ERROR: No matching distribution found for langchain_core.prompts
```

```
from langchain_core.prompts import ChatPromptTemplate
```

```
pip install dotenv
```

```
➦ Collecting dotenv
  Downloading dotenv-0.0.5.tar.gz (2.4 kB)
  error: subprocess-exited-with-error

  × python setup.py egg_info did not run successfully.
  | exit code: 1
  | See above for output.

  note: This error originates from a subprocess, and is likely not a problem with pip.
  Preparing metadata (setup.py) ... error
  error: metadata-generation-failed

  × Encountered error while generating package metadata.
  | See above for output.

  note: This is an issue with the package mentioned above, not pip.
  hint: See above for details.
```

```
from dotenv import load_dotenv
```

```
load_dotenv()
```

```
False
```

```
PINECONE_INDEX_NAME = "firstproject"
os.environ["PINECONE_API_KEY"]="pcsk_4u81nL_31P8DCTTWg8sh2o3QF4KPb54gjac1CHmaYBJWXWAFaKFjtuwNd4sTNfwckkYE8j"
st.title=("YOLOVO Q&A Application")
```

```
pip install PyPDF
```

```
from langchain_community.document_loaders import PyPDFLoader
```

```
loader=PyPDFLoader("yolov9_paper.pdf")
```

```
data=loader.load()
```

```
text_splitter=RecursiveCharacterTextSplitter(chunk_size=1000)
```

```
docs=text_splitter.split_documents(data)
```

```
embeddings=GoogleGenerativeAIEmbeddings(model="models/embedding-001")
```

```
docsearch=Pinecone.from_existing_index(index_name=PINECONE_INDEX_NAME,embedding=embeddings)
```

```
docsearch=PineconeVectorStore.from_existing_index(index_name=PINECONE_INDEX_NAME,embedding=embeddings)
```

```
from re import search
retriever=docsearch.as_retriever(search_type="similarity",search_kwargs={"k":10})
```

```
llm=ChatGoogleGenerativeAI(model="gemini-1.5-pro",temperature=0,max_tokens=None,timeout=None)
```

```
query=st.chat_input("Enter your query")
prompt=query
```

```
2025-01-11 16:13:18.902 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
2025-01-11 16:13:18.905 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
2025-01-11 16:13:18.907 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
2025-01-11 16:13:18.910 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
2025-01-11 16:13:18.913 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
```

```
system_prompt=(
    "You are an assistant for question-answering tasks."
    "Use the following pieces of retrieved context to answer"
    "the question. If you don't know the answer, say that you "
    "don't know. Use three sentences maximum and keep the "
    "answer concise"
    "\n\n"
    "{context}"
)
```


```
prompt=ChatPromptTemplate.from_messages(
    [
        ("system",system_prompt),
        ("human","{input}"),
    ]
)
```

```
if query:
    question_answer_chain=create_stuff_documents_chain(llm,prompt)
    rag_chain=create_retrieval_chain(retriever,question_answer_chain)
    response=rag_chain.invoke({"input":query})
    st.write(response["answer"])
```

```
!pip install -q condacolab
import condacolab
condacolab.install()
```

 Downloading https://github.com/conda-forge/miniforge/releases/download/23.11.0-0/Mambaforge-23.11.0-0-Linux-x86_64.sh...
 Installing...
 Adjusting configuration...
 Patching environment...
 Done in 0:00:11
 Restarting kernel...

```
import condacolab
condacolab.check()
```


 🌟🍰🌟 Everything looks OK!

```
!conda create -n myenv python=3.8
!conda activate myenv
!conda install -c conda-forge numpy
```


```
!conda init
```

 no change /usr/local/condabin/conda
 no change /usr/local/bin/conda
 no change /usr/local/bin/conda-env
 no change /usr/local/bin/activate
 no change /usr/local/bin/deactivate
 no change /usr/local/etc/profile.d/conda.sh
 no change /usr/local/etc/fish/conf.d/conda.fish
 no change /usr/local/shell/condabin/Conda.psm1
 no change /usr/local/shell/condabin/conda-hook.ps1
 no change /usr/local/lib/python3.10/site-packages/xontrib/conda.xsh
 no change /usr/local/etc/profile.d/conda.csh
 no change /root/.bashrc
 No action taken.

```
!conda init langchain
```

 usage: conda init [-h] [--all] [--user] [--no-user] [--system] [--reverse] [--json] [-v] [-q] [-d]
 [SHELLS ...]
 conda init: error: argument SHELLS: invalid choice: 'langchain' (choose from 'bash', 'fish', 'tcsh', 'xonsh', 'zsh', 'powershell')

```
!conda activate langchain
```

 CondaError: Run 'conda init' before 'conda activate'

```
!streamlit run app.py
```

...
Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8501>
 Network URL: <http://172.28.0.12:8501>
 External URL: <http://34.106.25.126:8501>

Start coding or [generate](#) with AI.