

# streamlit-colab-wit-pyngrok

August 1, 2024

```
[3]: !pip install streamlit
!pip install google-generativeai
!pip install langchain
!pip install PyPDF2
!pip install chromadb
!pip install faiss-cpu
!pip install langchain_google_genai
!pip install os
!pip install langchain_community
```

Collecting streamlit

Downloading streamlit-1.37.0-py2.py3-none-any.whl.metadata (8.5 kB)

Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (4.2.2)

Requirement already satisfied: blinker<2,>=1.0.0 in /usr/lib/python3/dist-packages (from streamlit) (1.4)

Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (5.4.0)

Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (8.1.7)

Requirement already satisfied: numpy<3,>=1.20 in /usr/local/lib/python3.10/dist-packages (from streamlit) (1.26.4)

Requirement already satisfied: packaging<25,>=20 in /usr/local/lib/python3.10/dist-packages (from streamlit) (24.1)

Requirement already satisfied: pandas<3,>=1.3.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (2.1.4)

Requirement already satisfied: pillow<11,>=7.1.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (9.4.0)

Requirement already satisfied: protobuf<6,>=3.20 in /usr/local/lib/python3.10/dist-packages (from streamlit) (3.20.3)

Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (14.0.2)

Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.10/dist-packages (from streamlit) (2.31.0)

Requirement already satisfied: rich<14,>=10.14.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (13.7.1)

Collecting tenacity<9,>=8.1.0 (from streamlit)

Downloading tenacity-8.5.0-py3-none-any.whl.metadata (1.2 kB)

Requirement already satisfied: toml<2,>=0.10.1 in  
 /usr/local/lib/python3.10/dist-packages (from streamlit) (0.10.2)

Requirement already satisfied: typing-extensions<5,>=4.3.0 in  
 /usr/local/lib/python3.10/dist-packages (from streamlit) (4.12.2)

Collecting gitpython!=3.1.19,<4,>=3.0.7 (from streamlit)  
 Downloading GitPython-3.1.43-py3-none-any.whl.metadata (13 kB)

Collecting pydeck<1,>=0.8.0b4 (from streamlit)  
 Downloading pydeck-0.9.1-py2.py3-none-any.whl.metadata (4.1 kB)

Requirement already satisfied: tornado<7,>=6.0.3 in  
 /usr/local/lib/python3.10/dist-packages (from streamlit) (6.3.3)

Collecting watchdog<5,>=2.1.5 (from streamlit)  
 Downloading watchdog-4.0.1-py3-none-manylinux2014\_x86\_64.whl.metadata (37 kB)

Requirement already satisfied: entrypoints in /usr/local/lib/python3.10/dist-  
 packages (from altair<6,>=4.0->streamlit) (0.4)

Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages  
 (from altair<6,>=4.0->streamlit) (3.1.4)

Requirement already satisfied: jsonschema>=3.0 in  
 /usr/local/lib/python3.10/dist-packages (from altair<6,>=4.0->streamlit)  
 (4.23.0)

Requirement already satisfied: toolz in /usr/local/lib/python3.10/dist-packages  
 (from altair<6,>=4.0->streamlit) (0.12.1)

Collecting gitdb<5,>=4.0.1 (from gitpython!=3.1.19,<4,>=3.0.7->streamlit)  
 Downloading gitdb-4.0.11-py3-none-any.whl.metadata (1.2 kB)

Requirement already satisfied: python-dateutil>=2.8.2 in  
 /usr/local/lib/python3.10/dist-packages (from pandas<3,>=1.3.0->streamlit)  
 (2.8.2)

Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-  
 packages (from pandas<3,>=1.3.0->streamlit) (2024.1)

Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-  
 packages (from pandas<3,>=1.3.0->streamlit) (2024.1)

Requirement already satisfied: charset-normalizer<4,>=2 in  
 /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit)  
 (3.3.2)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-  
 packages (from requests<3,>=2.27->streamlit) (3.7)

Requirement already satisfied: urllib3<3,>=1.21.1 in  
 /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit)  
 (2.0.7)

Requirement already satisfied: certifi>=2017.4.17 in  
 /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit)  
 (2024.7.4)

Requirement already satisfied: markdown-it-py>=2.2.0 in  
 /usr/local/lib/python3.10/dist-packages (from rich<14,>=10.14.0->streamlit)  
 (3.0.0)

Requirement already satisfied: pygments<3.0.0,>=2.13.0 in  
 /usr/local/lib/python3.10/dist-packages (from rich<14,>=10.14.0->streamlit)  
 (2.16.1)

Collecting smmap<6,>=3.0.1 (from

```

gitdb<5,>=4.0.1->gitpython!=3.1.19,<4,>=3.0.7->streamlit)
  Downloading smmap-5.0.1-py3-none-any.whl.metadata (4.3 kB)
Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.10/dist-packages (from jinja2->altair<6,>=4.0->streamlit)
(2.1.5)
Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib/python3.10/dist-
packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (23.2.0)
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in
/usr/local/lib/python3.10/dist-packages (from
jsonschema>=3.0->altair<6,>=4.0->streamlit) (2023.12.1)
Requirement already satisfied: referencing>=0.28.4 in
/usr/local/lib/python3.10/dist-packages (from
jsonschema>=3.0->altair<6,>=4.0->streamlit) (0.35.1)
Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.10/dist-
packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (0.19.1)
Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.10/dist-
packages (from markdown-it-py>=2.2.0->rich<14,>=10.14.0->streamlit) (0.1.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-
packages (from python-dateutil>=2.8.2->pandas<3,>=1.3.0->streamlit) (1.16.0)
Downloading streamlit-1.37.0-py2.py3-none-any.whl (8.7 MB)
      8.7/8.7 MB
64.3 MB/s eta 0:00:00
Downloading GitPython-3.1.43-py3-none-any.whl (207 kB)
      207.3/207.3 kB
12.8 MB/s eta 0:00:00
Downloading pydeck-0.9.1-py2.py3-none-any.whl (6.9 MB)
      6.9/6.9 MB
92.2 MB/s eta 0:00:00
Downloading tenacity-8.5.0-py3-none-any.whl (28 kB)
Downloading watchdog-4.0.1-py3-none-manylinux2014_x86_64.whl (83 kB)
      83.0/83.0 kB
5.8 MB/s eta 0:00:00
Downloading gitdb-4.0.11-py3-none-any.whl (62 kB)
      62.7/62.7 kB
4.2 MB/s eta 0:00:00
Downloading smmap-5.0.1-py3-none-any.whl (24 kB)
Installing collected packages: watchdog, tenacity, smmap, pydeck, gitdb,
gitpython, streamlit
  Attempting uninstall: tenacity
    Found existing installation: tenacity 9.0.0
    Uninstalling tenacity-9.0.0:
      Successfully uninstalled tenacity-9.0.0
Successfully installed gitdb-4.0.11 gitpython-3.1.43 pydeck-0.9.1 smmap-5.0.1
streamlit-1.37.0 tenacity-8.5.0 watchdog-4.0.1
Requirement already satisfied: google-generativeai in
/usr/local/lib/python3.10/dist-packages (0.7.2)
Requirement already satisfied: google-ai-generativelanguage==0.6.6 in
/usr/local/lib/python3.10/dist-packages (from google-generativeai) (0.6.6)

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Requirement already satisfied: google-api-core in  
 /usr/local/lib/python3.10/dist-packages (from google-generativeai) (2.19.1)

Requirement already satisfied: google-api-python-client in  
 /usr/local/lib/python3.10/dist-packages (from google-generativeai) (2.137.0)

Requirement already satisfied: google-auth>=2.15.0 in  
 /usr/local/lib/python3.10/dist-packages (from google-generativeai) (2.27.0)

Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-  
 packages (from google-generativeai) (3.20.3)

Requirement already satisfied: pydantic in /usr/local/lib/python3.10/dist-  
 packages (from google-generativeai) (2.8.2)

Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages  
 (from google-generativeai) (4.66.4)

Requirement already satisfied: typing-extensions in  
 /usr/local/lib/python3.10/dist-packages (from google-generativeai) (4.12.2)

Requirement already satisfied: proto-plus<2.0.0dev,>=1.22.3 in  
 /usr/local/lib/python3.10/dist-packages (from google-ai-  
 generativelanguage==0.6.6->google-generativeai) (1.24.0)

Requirement already satisfied: googleapis-common-protos<2.0.dev0,>=1.56.2 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-core->google-  
 generativeai) (1.63.2)

Requirement already satisfied: requests<3.0.0.dev0,>=2.18.0 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-core->google-  
 generativeai) (2.31.0)

Requirement already satisfied: cachetools<6.0,>=2.0.0 in  
 /usr/local/lib/python3.10/dist-packages (from google-auth>=2.15.0->google-  
 generativeai) (5.4.0)

Requirement already satisfied: pyasn1-modules>=0.2.1 in  
 /usr/local/lib/python3.10/dist-packages (from google-auth>=2.15.0->google-  
 generativeai) (0.4.0)

Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-  
 packages (from google-auth>=2.15.0->google-generativeai) (4.9)

Requirement already satisfied: httplib2<1.dev0,>=0.19.0 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-  
 generativeai) (0.22.0)

Requirement already satisfied: google-auth-httplib2<1.0.0,>=0.2.0 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-  
 generativeai) (0.2.0)

Requirement already satisfied: uritemplate<5,>=3.0.1 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-  
 generativeai) (4.1.1)

Requirement already satisfied: annotated-types>=0.4.0 in  
 /usr/local/lib/python3.10/dist-packages (from pydantic->google-generativeai)  
 (0.7.0)

Requirement already satisfied: pydantic-core==2.20.1 in  
 /usr/local/lib/python3.10/dist-packages (from pydantic->google-generativeai)  
 (2.20.1)

Requirement already satisfied: grpcio<2.0dev,>=1.33.2 in  
 /usr/local/lib/python3.10/dist-packages (from google-api-core[grpc]!=2.0.\*,!=2.1

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.*,!=2.10.*,!=2.2.*,!=2.3.*,!=2.4.*,!=2.5.*,!=2.6.*,!=2.7.*,!=2.8.*,!=2.9.*,<3.0
.0dev,>=1.34.1->google-ai-generativelanguage==0.6.6->google-generativeai)
(1.64.1)
Requirement already satisfied: grpcio-status<2.0.dev0,>=1.33.2 in
/usr/local/lib/python3.10/dist-packages (from google-api-core[grpc]!=2.0.*,!=2.1
.*,!=2.10.*,!=2.2.*,!=2.3.*,!=2.4.*,!=2.5.*,!=2.6.*,!=2.7.*,!=2.8.*,!=2.9.*,<3.0
.0dev,>=1.34.1->google-ai-generativelanguage==0.6.6->google-generativeai)
(1.48.2)
Requirement already satisfied:
pyparsing!=3.0.0,!=3.0.1,!=3.0.2,!=3.0.3,<4,>=2.4.2 in
/usr/local/lib/python3.10/dist-packages (from httplib2<1.dev0,>=0.19.0->google-
api-python-client->google-generativeai) (3.1.2)
Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in
/usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-
auth>=2.15.0->google-generativeai) (0.6.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-
packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-
generativeai) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (2024.7.4)
Collecting langchain
  Downloading langchain-0.2.11-py3-none-any.whl.metadata (7.1 kB)
Requirement already satisfied: PyYAML>=5.3 in /usr/local/lib/python3.10/dist-
packages (from langchain) (6.0.1)
Requirement already satisfied: SQLAlchemy<3,>=1.4 in
/usr/local/lib/python3.10/dist-packages (from langchain) (2.0.31)
Requirement already satisfied: aiohttp<4.0.0,>=3.8.3 in
/usr/local/lib/python3.10/dist-packages (from langchain) (3.9.5)
Requirement already satisfied: async-timeout<5.0.0,>=4.0.0 in
/usr/local/lib/python3.10/dist-packages (from langchain) (4.0.3)
Collecting langchain-core<0.3.0,>=0.2.23 (from langchain)
  Downloading langchain_core-0.2.26-py3-none-any.whl.metadata (6.2 kB)
Collecting langchain-text-splitters<0.3.0,>=0.2.0 (from langchain)
  Downloading langchain_text_splitters-0.2.2-py3-none-any.whl.metadata (2.1 kB)
Collecting langsmith<0.2.0,>=0.1.17 (from langchain)
  Downloading langsmith-0.1.95-py3-none-any.whl.metadata (13 kB)
Requirement already satisfied: numpy<2,>=1 in /usr/local/lib/python3.10/dist-
packages (from langchain) (1.26.4)
Requirement already satisfied: pydantic<3,>=1 in /usr/local/lib/python3.10/dist-
packages (from langchain) (2.8.2)
Requirement already satisfied: requests<3,>=2 in /usr/local/lib/python3.10/dist-

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packages (from langchain) (2.31.0)
Requirement already satisfied: tenacity!=8.4.0,<9.0.0,>=8.1.0 in
/usr/local/lib/python3.10/dist-packages (from langchain) (8.5.0)
Requirement already satisfied: aiosignal>=1.1.2 in
/usr/local/lib/python3.10/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain)
(1.3.1)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-
packages (from aiohttp<4.0.0,>=3.8.3->langchain) (23.2.0)
Requirement already satisfied: frozenlist>=1.1.1 in
/usr/local/lib/python3.10/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain)
(1.4.1)
Requirement already satisfied: multidict<7.0,>=4.5 in
/usr/local/lib/python3.10/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain)
(6.0.5)
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-
packages (from aiohttp<4.0.0,>=3.8.3->langchain) (1.9.4)
Collecting jsonpatch<2.0,>=1.33 (from langchain-core<0.3.0,>=0.2.23->langchain)
  Downloading jsonpatch-1.33-py2.py3-none-any.whl.metadata (3.0 kB)
Requirement already satisfied: packaging<25,>=23.2 in
/usr/local/lib/python3.10/dist-packages (from langchain-
core<0.3.0,>=0.2.23->langchain) (24.1)
Requirement already satisfied: typing-extensions>=4.7 in
/usr/local/lib/python3.10/dist-packages (from langchain-
core<0.3.0,>=0.2.23->langchain) (4.12.2)
Collecting orjson<4.0.0,>=3.9.14 (from langsmith<0.2.0,>=0.1.17->langchain)
  Downloading orjson-3.10.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_
64.whl.metadata (50 kB)
                                     50.4/50.4 kB
2.7 MB/s eta 0:00:00
Requirement already satisfied: annotated-types>=0.4.0 in
/usr/local/lib/python3.10/dist-packages (from pydantic<3,>=1->langchain) (0.7.0)
Requirement already satisfied: pydantic-core==2.20.1 in
/usr/local/lib/python3.10/dist-packages (from pydantic<3,>=1->langchain)
(2.20.1)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests<3,>=2->langchain) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-
packages (from requests<3,>=2->langchain) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from requests<3,>=2->langchain) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from requests<3,>=2->langchain)
(2024.7.4)
Requirement already satisfied: greenlet!=0.4.17 in
/usr/local/lib/python3.10/dist-packages (from SQLAlchemy<3,>=1.4->langchain)
(3.0.3)
Collecting jsonpointer>=1.9 (from jsonpatch<2.0,>=1.33->langchain-
core<0.3.0,>=0.2.23->langchain)

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    Downloading jsonpointer-3.0.0-py2.py3-none-any.whl.metadata (2.3 kB)
Downloading langchain-0.2.11-py3-none-any.whl (990 kB)
          990.3/990.3 kB
16.3 MB/s eta 0:00:00
Downloading langchain_core-0.2.26-py3-none-any.whl (378 kB)
          378.9/378.9 kB
20.3 MB/s eta 0:00:00
Downloading langchain_text_splitters-0.2.2-py3-none-any.whl (25 kB)
Downloading langsmith-0.1.95-py3-none-any.whl (275 kB)
          275.8/275.8 kB
15.7 MB/s eta 0:00:00
Downloading jsonpatch-1.33-py2.py3-none-any.whl (12 kB)
Downloading
orjson-3.10.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (141
kB)
          141.1/141.1 kB
9.3 MB/s eta 0:00:00
Downloading jsonpointer-3.0.0-py2.py3-none-any.whl (7.6 kB)
Installing collected packages: orjson, jsonpointer, jsonpatch, langsmith,
langchain-core, langchain-text-splitters, langchain
Successfully installed jsonpatch-1.33 jsonpointer-3.0.0 langchain-0.2.11
langchain-core-0.2.26 langchain-text-splitters-0.2.2 langsmith-0.1.95
orjson-3.10.6
Collecting PyPDF2
    Downloading pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)
Downloading pypdf2-3.0.1-py3-none-any.whl (232 kB)
          232.6/232.6 kB
3.9 MB/s eta 0:00:00
Installing collected packages: PyPDF2
Successfully installed PyPDF2-3.0.1
Collecting chromadb
    Downloading chromadb-0.5.5-py3-none-any.whl.metadata (6.8 kB)
Requirement already satisfied: build>=1.0.3 in /usr/local/lib/python3.10/dist-
packages (from chromadb) (1.2.1)
Requirement already satisfied: pydantic>=1.9 in /usr/local/lib/python3.10/dist-
packages (from chromadb) (2.8.2)
Collecting chroma-hnswlib==0.7.6 (from chromadb)
    Downloading chroma_hnswlib-0.7.6-cp310-cp310-manylinux_2_17_x86_64.manylinux20
14_x86_64.whl.metadata (252 bytes)
Collecting fastapi>=0.95.2 (from chromadb)
    Downloading fastapi-0.111.1-py3-none-any.whl.metadata (26 kB)
Collecting uvicorn>=0.18.3 (from uvicorn[standard]>=0.18.3->chromadb)
    Downloading uvicorn-0.30.4-py3-none-any.whl.metadata (6.6 kB)
Requirement already satisfied: numpy<2.0.0,>=1.22.5 in
/usr/local/lib/python3.10/dist-packages (from chromadb) (1.26.4)
Collecting posthog>=2.4.0 (from chromadb)
    Downloading posthog-3.5.0-py2.py3-none-any.whl.metadata (2.0 kB)
Requirement already satisfied: typing-extensions>=4.5.0 in

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/usr/local/lib/python3.10/dist-packages (from chromadb) (4.12.2)
Collecting onnxruntime>=1.14.1 (from chromadb)
  Downloading onnxruntime-1.18.1-cp310-cp310-manylinux_2_27_x86_64.manylinux_2_28_x86_64.whl.metadata (4.3 kB)
Collecting opentelemetry-api>=1.2.0 (from chromadb)
  Downloading opentelemetry_api-1.26.0-py3-none-any.whl.metadata (1.4 kB)
Collecting opentelemetry-exporter-otlp-proto-grpc>=1.2.0 (from chromadb)
  Downloading opentelemetry_exporter_otlp_proto_grpc-1.26.0-py3-none-any.whl.metadata (2.3 kB)
Collecting opentelemetry-instrumentation-fastapi>=0.41b0 (from chromadb)
  Downloading opentelemetry_instrumentation_fastapi-0.47b0-py3-none-any.whl.metadata (2.1 kB)
Collecting opentelemetry-sdk>=1.2.0 (from chromadb)
  Downloading opentelemetry_sdk-1.26.0-py3-none-any.whl.metadata (1.5 kB)
Requirement already satisfied: tokenizers>=0.13.2 in
/usr/local/lib/python3.10/dist-packages (from chromadb) (0.19.1)
Collecting pypika>=0.48.9 (from chromadb)
  Downloading PyPika-0.48.9.tar.gz (67 kB)
                                67.3/67.3 kB
3.1 MB/s eta 0:00:00
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Requirement already satisfied: tqdm>=4.65.0 in /usr/local/lib/python3.10/dist-packages (from chromadb) (4.66.4)
Collecting overrides>=7.3.1 (from chromadb)
  Downloading overrides-7.7.0-py3-none-any.whl.metadata (5.8 kB)
Requirement already satisfied: importlib-resources in
/usr/local/lib/python3.10/dist-packages (from chromadb) (6.4.0)
Requirement already satisfied: grpcio>=1.58.0 in /usr/local/lib/python3.10/dist-packages (from chromadb) (1.64.1)
Collecting bcrypt>=4.0.1 (from chromadb)
  Downloading bcrypt-4.2.0-cp39-abi3-manylinux_2_28_x86_64.whl.metadata (9.6 kB)
Requirement already satisfied: typer>=0.9.0 in /usr/local/lib/python3.10/dist-packages (from chromadb) (0.12.3)
Collecting kubernetes>=28.1.0 (from chromadb)
  Downloading kubernetes-30.1.0-py2.py3-none-any.whl.metadata (1.5 kB)
Requirement already satisfied: tenacity>=8.2.3 in
/usr/local/lib/python3.10/dist-packages (from chromadb) (8.5.0)
Requirement already satisfied: PyYAML>=6.0.0 in /usr/local/lib/python3.10/dist-packages (from chromadb) (6.0.1)
Collecting mmh3>=4.0.1 (from chromadb)
  Downloading mmh3-4.1.0-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (13 kB)
Requirement already satisfied: orjson>=3.9.12 in /usr/local/lib/python3.10/dist-packages (from chromadb) (3.10.6)
Collecting httpx>=0.27.0 (from chromadb)
  Downloading httpx-0.27.0-py3-none-any.whl.metadata (7.2 kB)

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Requirement already satisfied: packaging>=19.1 in /usr/local/lib/python3.10/dist-packages (from build>=1.0.3->chromadb) (24.1)

Requirement already satisfied: pyproject\_hooks in /usr/local/lib/python3.10/dist-packages (from build>=1.0.3->chromadb) (1.1.0)

Requirement already satisfied: tomli>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from build>=1.0.3->chromadb) (2.0.1)

Collecting starlette<0.38.0,>=0.37.2 (from fastapi>=0.95.2->chromadb)

  Downloading starlette-0.37.2-py3-none-any.whl.metadata (5.9 kB)

Collecting fastapi-cli>=0.0.2 (from fastapi>=0.95.2->chromadb)

  Downloading fastapi\_cli-0.0.4-py3-none-any.whl.metadata (7.0 kB)

Requirement already satisfied: jinja2>=2.11.2 in /usr/local/lib/python3.10/dist-packages (from fastapi>=0.95.2->chromadb) (3.1.4)

Collecting python-multipart>=0.0.7 (from fastapi>=0.95.2->chromadb)

  Downloading python\_multipart-0.0.9-py3-none-any.whl.metadata (2.5 kB)

Collecting email\_validator>=2.0.0 (from fastapi>=0.95.2->chromadb)

  Downloading email\_validator-2.2.0-py3-none-any.whl.metadata (25 kB)

Requirement already satisfied: anyio in /usr/local/lib/python3.10/dist-packages (from httpx>=0.27.0->chromadb) (3.7.1)

Requirement already satisfied: certifi in /usr/local/lib/python3.10/dist-packages (from httpx>=0.27.0->chromadb) (2024.7.4)

Collecting httpcore==1.\* (from httpx>=0.27.0->chromadb)

  Downloading httpcore-1.0.5-py3-none-any.whl.metadata (20 kB)

Requirement already satisfied: idna in /usr/local/lib/python3.10/dist-packages (from httpx>=0.27.0->chromadb) (3.7)

Requirement already satisfied: sniffio in /usr/local/lib/python3.10/dist-packages (from httpx>=0.27.0->chromadb) (1.3.1)

Collecting h11<0.15,>=0.13 (from httpcore==1.\*->httpx>=0.27.0->chromadb)

  Downloading h11-0.14.0-py3-none-any.whl.metadata (8.2 kB)

Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (1.16.0)

Requirement already satisfied: python-dateutil>=2.5.3 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.8.2)

Requirement already satisfied: google-auth>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.27.0)

Requirement already satisfied: websocket-client!=0.40.0,!0.41.\*,!0.42.\*,>=0.32.0 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (1.8.0)

Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.31.0)

Requirement already satisfied: requests-oauthlib in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (1.3.1)

Requirement already satisfied: oauthlib>=3.2.2 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (3.2.2)

Requirement already satisfied: urllib3>=1.24.2 in

```

/usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb)
(2.0.7)
Collecting coloredlogs (from onnxruntime>=1.14.1->chromadb)
  Downloading coloredlogs-15.0.1-py2.py3-none-any.whl.metadata (12 kB)
Requirement already satisfied: flatbuffers in /usr/local/lib/python3.10/dist-
packages (from onnxruntime>=1.14.1->chromadb) (24.3.25)
Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-
packages (from onnxruntime>=1.14.1->chromadb) (3.20.3)
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages
(from onnxruntime>=1.14.1->chromadb) (1.13.1)
Collecting deprecated>=1.2.6 (from opentelemetry-api>=1.2.0->chromadb)
  Downloading Deprecated-1.2.14-py2.py3-none-any.whl.metadata (5.4 kB)
Collecting importlib-metadata<=8.0.0,>=6.0 (from opentelemetry-
api>=1.2.0->chromadb)
  Downloading importlib_metadata-8.0.0-py3-none-any.whl.metadata (4.6 kB)
Requirement already satisfied: googleapis-common-protos~=1.52 in
/usr/local/lib/python3.10/dist-packages (from opentelemetry-exporter-otlp-proto-
grpc>=1.2.0->chromadb) (1.63.2)
Collecting opentelemetry-exporter-otlp-proto-common==1.26.0 (from opentelemetry-
exporter-otlp-proto-grpc>=1.2.0->chromadb)
  Downloading opentelemetry_exporter_otlp_proto_common-1.26.0-py3-none-
any.whl.metadata (1.8 kB)
Collecting opentelemetry-proto==1.26.0 (from opentelemetry-exporter-otlp-proto-
grpc>=1.2.0->chromadb)
  Downloading opentelemetry_proto-1.26.0-py3-none-any.whl.metadata (2.3 kB)
Collecting opentelemetry-instrumentation-asgi==0.47b0 (from opentelemetry-
instrumentation-fastapi>=0.41b0->chromadb)
  Downloading opentelemetry_instrumentation_asgi-0.47b0-py3-none-
any.whl.metadata (2.0 kB)
Collecting opentelemetry-instrumentation==0.47b0 (from opentelemetry-
instrumentation-fastapi>=0.41b0->chromadb)
  Downloading opentelemetry_instrumentation-0.47b0-py3-none-any.whl.metadata
(6.1 kB)
Collecting opentelemetry-semantic-conventions==0.47b0 (from opentelemetry-
instrumentation-fastapi>=0.41b0->chromadb)
  Downloading opentelemetry_semantic_conventions-0.47b0-py3-none-
any.whl.metadata (2.4 kB)
Collecting opentelemetry-util-http==0.47b0 (from opentelemetry-instrumentation-
fastapi>=0.41b0->chromadb)
  Downloading opentelemetry_util_http-0.47b0-py3-none-any.whl.metadata (2.5 kB)
Requirement already satisfied: setuptools>=16.0 in
/usr/local/lib/python3.10/dist-packages (from opentelemetry-
instrumentation==0.47b0->opentelemetry-instrumentation-
fastapi>=0.41b0->chromadb) (71.0.4)
Requirement already satisfied: wrapt<2.0.0,>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from opentelemetry-
instrumentation==0.47b0->opentelemetry-instrumentation-
fastapi>=0.41b0->chromadb) (1.16.0)

```

Collecting asgiref~=3.0 (from opentelemetry-instrumentation-asgi==0.47b0->opentelemetry-instrumentation-fastapi>=0.41b0->chromadb)  
 Downloading asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)  
 Collecting monotonic>=1.5 (from posthog>=2.4.0->chromadb)  
 Downloading monotonic-1.6-py2.py3-none-any.whl.metadata (1.5 kB)  
 Collecting backoff>=1.10.0 (from posthog>=2.4.0->chromadb)  
 Downloading backoff-2.2.1-py3-none-any.whl.metadata (14 kB)  
 Requirement already satisfied: annotated-types>=0.4.0 in /usr/local/lib/python3.10/dist-packages (from pydantic>=1.9->chromadb) (0.7.0)  
 Requirement already satisfied: pydantic-core==2.20.1 in /usr/local/lib/python3.10/dist-packages (from pydantic>=1.9->chromadb) (2.20.1)  
 Requirement already satisfied: huggingface-hub<1.0,>=0.16.4 in /usr/local/lib/python3.10/dist-packages (from tokenizers>=0.13.2->chromadb) (0.23.5)  
 Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.10/dist-packages (from typer>=0.9.0->chromadb) (8.1.7)  
 Requirement already satisfied: shellingham>=1.3.0 in /usr/local/lib/python3.10/dist-packages (from typer>=0.9.0->chromadb) (1.5.4)  
 Requirement already satisfied: rich>=10.11.0 in /usr/local/lib/python3.10/dist-packages (from typer>=0.9.0->chromadb) (13.7.1)  
 Collecting httptools>=0.5.0 (from uvicorn[standard]>=0.18.3->chromadb)  
 Downloading httptools-0.6.1-cp310-cp310-manylinux\_2\_5\_x86\_64.manylinux1\_x86\_64.manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (3.6 kB)  
 Collecting python-dotenv>=0.13 (from uvicorn[standard]>=0.18.3->chromadb)  
 Downloading python\_dotenv-1.0.1-py3-none-any.whl.metadata (23 kB)  
 Collecting uvloop!=0.15.0,!0.15.1,>=0.14.0 (from uvicorn[standard]>=0.18.3->chromadb)  
 Downloading uvloop-0.19.0-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (4.9 kB)  
 Collecting watchfiles>=0.13 (from uvicorn[standard]>=0.18.3->chromadb)  
 Downloading watchfiles-0.22.0-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (4.9 kB)  
 Collecting websockets>=10.4 (from uvicorn[standard]>=0.18.3->chromadb)  
 Downloading websockets-12.0-cp310-cp310-manylinux\_2\_5\_x86\_64.manylinux1\_x86\_64.manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (6.6 kB)  
 Collecting dnspython>=2.0.0 (from email\_validator>=2.0.0->fastapi>=0.95.2->chromadb)  
 Downloading dnspython-2.6.1-py3-none-any.whl.metadata (5.8 kB)  
 Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes>=28.1.0->chromadb) (5.4.0)  
 Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes>=28.1.0->chromadb) (0.4.0)  
 Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes>=28.1.0->chromadb) (4.9)  
 Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from huggingface-hub<1.0,>=0.16.4->tokenizers>=0.13.2->chromadb)

```

(3.15.4)
Requirement already satisfied: fsspec>=2023.5.0 in
/usr/local/lib/python3.10/dist-packages (from huggingface-
hub<1.0,>=0.16.4->tokenizers>=0.13.2->chromadb) (2024.6.1)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-
packages (from importlib-metadata<=8.0.0,>=6.0->opentelemetry-
api>=1.2.0->chromadb) (3.19.2)
Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.10/dist-packages (from
jinja2>=2.11.2->fastapi>=0.95.2->chromadb) (2.1.5)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from
requests->kubernetes>=28.1.0->chromadb) (3.3.2)
Requirement already satisfied: markdown-it-py>=2.2.0 in
/usr/local/lib/python3.10/dist-packages (from
rich>=10.11.0->typer>=0.9.0->chromadb) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in
/usr/local/lib/python3.10/dist-packages (from
rich>=10.11.0->typer>=0.9.0->chromadb) (2.16.1)
Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-
packages (from anyio->httpx>=0.27.0->chromadb) (1.2.2)
Collecting humanfriendly>=9.1 (from coloredlogs->onnxruntime>=1.14.1->chromadb)
  Downloading humanfriendly-10.0-py2.py3-none-any.whl.metadata (9.2 kB)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in
/usr/local/lib/python3.10/dist-packages (from
sympy->onnxruntime>=1.14.1->chromadb) (1.3.0)
Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.10/dist-
packages (from markdown-it-py>=2.2.0->rich>=10.11.0->typer>=0.9.0->chromadb)
(0.1.2)
Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in
/usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-
auth>=1.0.1->kubernetes>=28.1.0->chromadb) (0.6.0)
Downloading chromadb-0.5.5-py3-none-any.whl (584 kB)
      584.3/584.3 kB
12.9 MB/s eta 0:00:00
Downloading
chroma_hnswlib-0.7.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl
(2.4 MB)
      2.4/2.4 MB
49.1 MB/s eta 0:00:00
Downloading bcrypt-4.2.0-cp39-abi3-manylinux_2_28_x86_64.whl (273 kB)
      273.8/273.8 kB
16.8 MB/s eta 0:00:00
Downloading fastapi-0.111.1-py3-none-any.whl (92 kB)
      92.2/92.2 kB
6.6 MB/s eta 0:00:00
Downloading httpx-0.27.0-py3-none-any.whl (75 kB)
      75.6/75.6 kB

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5.0 MB/s eta 0:00:00  
Downloading httpcore-1.0.5-py3-none-any.whl (77 kB)  
77.9/77.9 kB

4.9 MB/s eta 0:00:00  
Downloading kubernetes-30.1.0-py2.py3-none-any.whl (1.7 MB)  
1.7/1.7 MB

47.3 MB/s eta 0:00:00  
Downloading mmh3-4.1.0-cp310-cp310-manylinux\_2\_5\_x86\_64.manylinux1\_x86\_64.  
manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (67 kB)  
67.6/67.6 kB

4.7 MB/s eta 0:00:00  
Downloading  
onnxruntime-1.18.1-cp310-cp310-manylinux\_2\_27\_x86\_64.manylinux\_2\_28\_x86\_64.whl  
(6.8 MB)  
6.8/6.8 MB

65.2 MB/s eta 0:00:00  
Downloading opentelemetry\_api-1.26.0-py3-none-any.whl (61 kB)  
61.5/61.5 kB

4.0 MB/s eta 0:00:00  
Downloading opentelemetry\_exporter\_otlp\_proto\_grpc-1.26.0-py3-none-any.whl  
(18 kB)  
Downloading opentelemetry\_exporter\_otlp\_proto\_common-1.26.0-py3-none-any.whl (17  
kB)  
Downloading opentelemetry\_proto-1.26.0-py3-none-any.whl (52 kB)  
52.5/52.5 kB

3.6 MB/s eta 0:00:00  
Downloading opentelemetry\_instrumentation\_fastapi-0.47b0-py3-none-any.whl  
(11 kB)  
Downloading opentelemetry\_instrumentation-0.47b0-py3-none-any.whl (29 kB)  
Downloading opentelemetry\_instrumentation\_asgi-0.47b0-py3-none-any.whl (15 kB)  
Downloading opentelemetry\_semantic\_conventions-0.47b0-py3-none-any.whl (138 kB)  
138.0/138.0 kB

8.9 MB/s eta 0:00:00  
Downloading opentelemetry\_util\_http-0.47b0-py3-none-any.whl (6.9 kB)  
Downloading opentelemetry\_sdk-1.26.0-py3-none-any.whl (109 kB)  
109.5/109.5 kB

6.9 MB/s eta 0:00:00  
Downloading overrides-7.7.0-py3-none-any.whl (17 kB)  
Downloading posthog-3.5.0-py2.py3-none-any.whl (41 kB)  
41.3/41.3 kB

2.0 MB/s eta 0:00:00  
Downloading uvicorn-0.30.4-py3-none-any.whl (62 kB)  
62.8/62.8 kB

4.3 MB/s eta 0:00:00  
Downloading backoff-2.2.1-py3-none-any.whl (15 kB)  
Downloading Deprecated-1.2.14-py2.py3-none-any.whl (9.6 kB)  
Downloading email\_validator-2.2.0-py3-none-any.whl (33 kB)  
Downloading fastapi\_cli-0.0.4-py3-none-any.whl (9.5 kB)

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Downloading h11-0.14.0-py3-none-any.whl (58 kB)
58.3/58.3 kB
3.7 MB/s eta 0:00:00
Downloading httptools-0.6.1-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (341 kB)
341.4/341.4 kB
18.0 MB/s eta 0:00:00
Downloading importlib_metadata-8.0.0-py3-none-any.whl (24 kB)
Downloading monotonic-1.6-py2.py3-none-any.whl (8.2 kB)
Downloading python_dotenv-1.0.1-py3-none-any.whl (19 kB)
Downloading python_multipart-0.0.9-py3-none-any.whl (22 kB)
Downloading starlette-0.37.2-py3-none-any.whl (71 kB)
71.9/71.9 kB
4.6 MB/s eta 0:00:00
Downloading
uvloop-0.19.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.4 MB)
3.4/3.4 MB
44.6 MB/s eta 0:00:00
Downloading
watchfiles-0.22.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.2 MB)
1.2/1.2 MB
38.0 MB/s eta 0:00:00
Downloading websockets-12.0-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (130 kB)
130.2/130.2 kB
7.1 MB/s eta 0:00:00
Downloading coloredlogs-15.0.1-py2.py3-none-any.whl (46 kB)
46.0/46.0 kB
2.7 MB/s eta 0:00:00
Downloading asgiref-3.8.1-py3-none-any.whl (23 kB)
Downloading dnspython-2.6.1-py3-none-any.whl (307 kB)
307.7/307.7 kB
16.7 MB/s eta 0:00:00
Downloading humanfriendly-10.0-py2.py3-none-any.whl (86 kB)
86.8/86.8 kB
5.4 MB/s eta 0:00:00
Building wheels for collected packages: pypika
  Building wheel for pypika (pyproject.toml) ... done
  Created wheel for pypika: filename=PyPika-0.48.9-py2.py3-none-any.whl
  size=53725
  sha256=b98b4faa9fa70e9cfdcf18cc1110101422404aa386d24cc49933d125168289f
  Stored in directory: /root/.cache/pip/wheels/e1/26/51/d0bffb3d2fd82256676d7ad3003faea3bd6dddc9577af665f4
Successfully built pypika
Installing collected packages: pypika, monotonic, mmh3, websockets, uvloop, python-multipart, python-dotenv, overrides, opentelemetry-util-http,

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opentelemetry-proto, importlib-metadata, humanfriendly, httptools, h11, dnspython, deprecated, chroma-hnswlib, bcrypt, backoff, asgiref, watchfiles, uvicorn, starlette, posthog, opentelemetry-exporter-otlp-proto-common, opentelemetry-api, httpcore, email\_validator, coloredlogs, opentelemetry-semantic-conventions, opentelemetry-instrumentation, onnxruntime, kubernetes, httpx, opentelemetry-sdk, opentelemetry-instrumentation-asgi, fastapi-cli, opentelemetry-instrumentation-fastapi, opentelemetry-exporter-otlp-proto-grpc, fastapi, chromadb

Attempting uninstall: importlib-metadata

Found existing installation: importlib\_metadata 8.2.0

Uninstalling importlib\_metadata-8.2.0:

Successfully uninstalled importlib\_metadata-8.2.0

Successfully installed asgiref-3.8.1 backoff-2.2.1 bcrypt-4.2.0 chroma-hnswlib-0.7.6 chromadb-0.5.5 coloredlogs-15.0.1 deprecated-1.2.14 dnspython-2.6.1 email\_validator-2.2.0 fastapi-0.111.1 fastapi-cli-0.0.4 h11-0.14.0 httpcore-1.0.5 httptools-0.6.1 httpx-0.27.0 humanfriendly-10.0 importlib-metadata-8.0.0 kubernetes-30.1.0 mmh3-4.1.0 monotonic-1.6 onnxruntime-1.18.1 opentelemetry-api-1.26.0 opentelemetry-exporter-otlp-proto-common-1.26.0 opentelemetry-exporter-otlp-proto-grpc-1.26.0 opentelemetry-instrumentation-0.47b0 opentelemetry-instrumentation-asgi-0.47b0 opentelemetry-instrumentation-fastapi-0.47b0 opentelemetry-proto-1.26.0 opentelemetry-sdk-1.26.0 opentelemetry-semantic-conventions-0.47b0 opentelemetry-util-http-0.47b0 overrides-7.7.0 posthog-3.5.0 pypika-0.48.9 python-dotenv-1.0.1 python-multipart-0.0.9 starlette-0.37.2 uvicorn-0.30.4 uvloop-0.19.0 watchfiles-0.22.0 websockets-12.0

Collecting faiss-cpu

Downloading faiss\_cpu-1.8.0.post1-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (3.7 kB)

Requirement already satisfied: numpy<2.0,>=1.0 in /usr/local/lib/python3.10/dist-packages (from faiss-cpu) (1.26.4)

Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from faiss-cpu) (24.1)

Downloading

faiss\_cpu-1.8.0.post1-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (27.0 MB)

27.0/27.0 MB

24.1 MB/s eta 0:00:00

Installing collected packages: faiss-cpu

Successfully installed faiss-cpu-1.8.0.post1

Collecting langchain\_google\_genai

Downloading langchain\_google\_genai-1.0.8-py3-none-any.whl.metadata (3.8 kB)

Requirement already satisfied: google-generativeai<0.8.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from langchain\_google\_genai) (0.7.2)

Requirement already satisfied: langchain-core<0.3,>=0.2.17 in /usr/local/lib/python3.10/dist-packages (from langchain\_google\_genai) (0.2.26)

Requirement already satisfied: google-ai-generativelanguage==0.6.6 in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (0.6.6)

Requirement already satisfied: google-api-core in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (2.19.1)

Requirement already satisfied: google-api-python-client in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (2.137.0)

Requirement already satisfied: google-auth>=2.15.0 in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (2.27.0)

Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (3.20.3)

Requirement already satisfied: pydantic in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (2.8.2)

Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (4.66.4)

Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (4.12.2)

Requirement already satisfied: proto-plus<2.0.0dev,>=1.22.3 in /usr/local/lib/python3.10/dist-packages (from google-ai-generativelanguage==0.6.6->google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (1.24.0)

Requirement already satisfied: PyYAML>=5.3 in /usr/local/lib/python3.10/dist-packages (from langchain-core<0.3,>=0.2.17->langchain\_google\_genai) (6.0.1)

Requirement already satisfied: jsonpatch<2.0,>=1.33 in /usr/local/lib/python3.10/dist-packages (from langchain-core<0.3,>=0.2.17->langchain\_google\_genai) (1.33)

Requirement already satisfied: langsmith<0.2.0,>=0.1.75 in /usr/local/lib/python3.10/dist-packages (from langchain-core<0.3,>=0.2.17->langchain\_google\_genai) (0.1.95)

Requirement already satisfied: packaging<25,>=23.2 in /usr/local/lib/python3.10/dist-packages (from langchain-core<0.3,>=0.2.17->langchain\_google\_genai) (24.1)

Requirement already satisfied: tenacity!=8.4.0,<9.0.0,>=8.1.0 in /usr/local/lib/python3.10/dist-packages (from langchain-core<0.3,>=0.2.17->langchain\_google\_genai) (8.5.0)

Requirement already satisfied: googleapis-common-protos<2.0.dev0,>=1.56.2 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (1.63.2)

Requirement already satisfied: requests<3.0.0.dev0,>=2.18.0 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (2.31.0)

Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth>=2.15.0->google-generativeai<0.8.0,>=0.7.0->langchain\_google\_genai) (5.4.0)

Requirement already satisfied: pyasn1-modules>=0.2.1 in



```

/usr/local/lib/python3.10/dist-packages (from google-auth>=2.15.0->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (0.4.0)
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-
packages (from google-auth>=2.15.0->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (4.9)
Requirement already satisfied: jsonpointer>=1.9 in
/usr/local/lib/python3.10/dist-packages (from jsonpatch<2.0,>=1.33->langchain-
core<0.3,>=0.2.17->langchain_google_genai) (3.0.0)
Requirement already satisfied: orjson<4.0.0,>=3.9.14 in
/usr/local/lib/python3.10/dist-packages (from
langsmith<0.2.0,>=0.1.75->langchain-core<0.3,>=0.2.17->langchain_google_genai)
(3.10.6)
Requirement already satisfied: annotated-types>=0.4.0 in
/usr/local/lib/python3.10/dist-packages (from pydantic->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (0.7.0)
Requirement already satisfied: pydantic-core==2.20.1 in
/usr/local/lib/python3.10/dist-packages (from pydantic->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (2.20.1)
Requirement already satisfied: httplib2<1.dev0,>=0.19.0 in
/usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (0.22.0)
Requirement already satisfied: google-auth-httplib2<1.0.0,>=0.2.0 in
/usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (0.2.0)
Requirement already satisfied: writemplate<5,>=3.0.1 in
/usr/local/lib/python3.10/dist-packages (from google-api-python-client->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (4.1.1)
Requirement already satisfied: grpcio<2.0dev,>=1.33.2 in
/usr/local/lib/python3.10/dist-packages (from google-api-core[grpc]!=2.0.*,!=2.1
.*,!=2.10.*,!=2.2.*,!=2.3.*,!=2.4.*,!=2.5.*,!=2.6.*,!=2.7.*,!=2.8.*,!=2.9.*,<3.0
.0dev,>=1.34.1->google-ai-generativelanguage==0.6.6->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (1.64.1)
Requirement already satisfied: grpcio-status<2.0.dev0,>=1.33.2 in
/usr/local/lib/python3.10/dist-packages (from google-api-core[grpc]!=2.0.*,!=2.1
.*,!=2.10.*,!=2.2.*,!=2.3.*,!=2.4.*,!=2.5.*,!=2.6.*,!=2.7.*,!=2.8.*,!=2.9.*,<3.0
.0dev,>=1.34.1->google-ai-generativelanguage==0.6.6->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (1.48.2)
Requirement already satisfied:
pyparsing!=3.0.0,!3.0.1,!3.0.2,!3.0.3,<4,>=2.4.2 in
/usr/local/lib/python3.10/dist-packages (from httplib2<1.dev0,>=0.19.0->google-
api-python-client->google-generativeai<0.8.0,>=0.7.0->langchain_google_genai)
(3.1.2)
Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in
/usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-
auth>=2.15.0->google-generativeai<0.8.0,>=0.7.0->langchain_google_genai) (0.6.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-

```

```

generativeai<0.8.0,>=0.7.0->langchain_google_genai) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-
packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.10/dist-packages (from
requests<3.0.0.dev0,>=2.18.0->google-api-core->google-
generativeai<0.8.0,>=0.7.0->langchain_google_genai) (2024.7.4)
Downloading langchain_google_genai-1.0.8-py3-none-any.whl (38 kB)
Installing collected packages: langchain_google_genai
Successfully installed langchain_google_genai-1.0.8
ERROR: Could not find a version that satisfies the requirement os (from
versions: none)

ERROR: No matching distribution found for os

Collecting langchain_community
  Downloading langchain_community-0.2.10-py3-none-any.whl.metadata (2.7 kB)
Requirement already satisfied: PyYAML>=5.3 in /usr/local/lib/python3.10/dist-
packages (from langchain_community) (6.0.1)
Requirement already satisfied: SQLAlchemy<3,>=1.4 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (2.0.31)
Requirement already satisfied: aiohttp<4.0.0,>=3.8.3 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (3.9.5)
Collecting dataclasses-json<0.7,>=0.5.7 (from langchain_community)
  Downloading dataclasses_json-0.6.7-py3-none-any.whl.metadata (25 kB)
Requirement already satisfied: langchain<0.3.0,>=0.2.9 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (0.2.11)
Requirement already satisfied: langchain-core<0.3.0,>=0.2.23 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (0.2.26)
Requirement already satisfied: langsmith<0.2.0,>=0.1.0 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (0.1.95)
Requirement already satisfied: numpy<2,>=1 in /usr/local/lib/python3.10/dist-
packages (from langchain_community) (1.26.4)
Requirement already satisfied: requests<3,>=2 in /usr/local/lib/python3.10/dist-
packages (from langchain_community) (2.31.0)
Requirement already satisfied: tenacity!=8.4.0,<9.0.0,>=8.1.0 in
/usr/local/lib/python3.10/dist-packages (from langchain_community) (8.5.0)
Requirement already satisfied: aiosignal>=1.1.2 in
/usr/local/lib/python3.10/dist-packages (from
aiohttp<4.0.0,>=3.8.3->langchain_community) (1.3.1)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-
packages (from aiohttp<4.0.0,>=3.8.3->langchain_community) (23.2.0)
Requirement already satisfied: frozenlist>=1.1.1 in

```

/usr/local/lib/python3.10/dist-packages (from  
 aiohttp<4.0.0,>=3.8.3->langchain\_community) (1.4.1)  
 Requirement already satisfied: multidict<7.0,>=4.5 in  
 /usr/local/lib/python3.10/dist-packages (from  
 aiohttp<4.0.0,>=3.8.3->langchain\_community) (6.0.5)  
 Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-  
 packages (from aiohttp<4.0.0,>=3.8.3->langchain\_community) (1.9.4)  
 Requirement already satisfied: async-timeout<5.0,>=4.0 in  
 /usr/local/lib/python3.10/dist-packages (from  
 aiohttp<4.0.0,>=3.8.3->langchain\_community) (4.0.3)  
 Collecting marshmallow<4.0.0,>=3.18.0 (from dataclasses-  
 json<0.7,>=0.5.7->langchain\_community)  
 Downloading marshmallow-3.21.3-py3-none-any.whl.metadata (7.1 kB)  
 Collecting typing-inspect<1,>=0.4.0 (from dataclasses-  
 json<0.7,>=0.5.7->langchain\_community)  
 Downloading typing\_inspect-0.9.0-py3-none-any.whl.metadata (1.5 kB)  
 Requirement already satisfied: langchain-text-splitters<0.3.0,>=0.2.0 in  
 /usr/local/lib/python3.10/dist-packages (from  
 langchain<0.3.0,>=0.2.9->langchain\_community) (0.2.2)  
 Requirement already satisfied: pydantic<3,>=1 in /usr/local/lib/python3.10/dist-  
 packages (from langchain<0.3.0,>=0.2.9->langchain\_community) (2.8.2)  
 Requirement already satisfied: jsonpatch<2.0,>=1.33 in  
 /usr/local/lib/python3.10/dist-packages (from langchain-  
 core<0.3.0,>=0.2.23->langchain\_community) (1.33)  
 Requirement already satisfied: packaging<25,>=23.2 in  
 /usr/local/lib/python3.10/dist-packages (from langchain-  
 core<0.3.0,>=0.2.23->langchain\_community) (24.1)  
 Requirement already satisfied: typing-extensions>=4.7 in  
 /usr/local/lib/python3.10/dist-packages (from langchain-  
 core<0.3.0,>=0.2.23->langchain\_community) (4.12.2)  
 Requirement already satisfied: orjson<4.0.0,>=3.9.14 in  
 /usr/local/lib/python3.10/dist-packages (from  
 langsmith<0.2.0,>=0.1.0->langchain\_community) (3.10.6)  
 Requirement already satisfied: charset-normalizer<4,>=2 in  
 /usr/local/lib/python3.10/dist-packages (from  
 requests<3,>=2->langchain\_community) (3.3.2)  
 Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-  
 packages (from requests<3,>=2->langchain\_community) (3.7)  
 Requirement already satisfied: urllib3<3,>=1.21.1 in  
 /usr/local/lib/python3.10/dist-packages (from  
 requests<3,>=2->langchain\_community) (2.0.7)  
 Requirement already satisfied: certifi>=2017.4.17 in  
 /usr/local/lib/python3.10/dist-packages (from  
 requests<3,>=2->langchain\_community) (2024.7.4)  
 Requirement already satisfied: greenlet!=0.4.17 in  
 /usr/local/lib/python3.10/dist-packages (from  
 SQLAlchemy<3,>=1.4->langchain\_community) (3.0.3)  
 Requirement already satisfied: jsonpointer>=1.9 in

```

/usr/local/lib/python3.10/dist-packages (from jsonpatch<2.0,>=1.33->langchain-
core<0.3.0,>=0.2.23->langchain_community) (3.0.0)
Requirement already satisfied: annotated-types>=0.4.0 in
/usr/local/lib/python3.10/dist-packages (from
pydantic<3,>=1->langchain<0.3.0,>=0.2.9->langchain_community) (0.7.0)
Requirement already satisfied: pydantic-core==2.20.1 in
/usr/local/lib/python3.10/dist-packages (from
pydantic<3,>=1->langchain<0.3.0,>=0.2.9->langchain_community) (2.20.1)
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)
  Downloading langchain_community-0.2.10-py3-none-any.whl (2.3 MB)
    2.3/2.3 MB
26.0 MB/s eta 0:00:00
  Downloading dataclasses_json-0.6.7-py3-none-any.whl (28 kB)
  Downloading marshmallow-3.21.3-py3-none-any.whl (49 kB)
    49.2/49.2 kB
3.0 MB/s eta 0:00:00
  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: mypy_extensions, marshmallow, typing-inspect,
dataclasses-json, langchain_community
Successfully installed dataclasses-json-0.6.7 langchain_community-0.2.10
marshmallow-3.21.3 mypy_extensions-1.0.0 typing-inspect-0.9.0

```

Write the cell python code into an app.py file

```

[4]: %%writefile app.py
import streamlit as st
from PyPDF2 import PdfReader
from langchain.text_splitter import RecursiveCharacterTextSplitter
from langchain_google_genai import GoogleGenerativeAIEmbeddings
import google.generativeai as genai
from langchain.vectorstores import FAISS
from langchain_google_genai import ChatGoogleGenerativeAI
from langchain.chains.question_answering import load_qa_chain
from langchain.prompts import PromptTemplate
import os

st.set_page_config(page_title="Document Genie", layout="wide")

st.markdown("""
## Document Genie: Get instant insights from your Documents

```

This chatbot is built using the Retrieval-Augmented Generation (RAG) framework, leveraging Google's Generative AI model Gemini-PRO. It processes uploaded PDF documents by breaking them down into manageable chunks, creates a searchable vector store, and generates accurate answers to user queries. This advanced approach ensures high-quality, contextually relevant responses for an efficient and effective user experience.

### ### How It Works

Follow these simple steps to interact with the chatbot:

1. **\*\*Enter Your API Key\*\***: You'll need a Google API key for the chatbot to access Google's Generative AI models. Obtain your API key [here](https://makersuite.google.com/app/apikey).
2. **\*\*Upload Your Documents\*\***: The system accepts multiple PDF files at once, analyzing the content to provide comprehensive insights.
3. **\*\*Ask a Question\*\***: After processing the documents, ask any question related to the content of your uploaded documents for a precise answer.

""")

```
api_key = st.text_input("Enter your Google API Key:", type="password",  
    key="AIzaSyDz1AvTEpe3RP042U93tKFYShDl0yPOPFU")
```

```
def get_pdf_text(pdf_docs):  
    text = ""  
    for pdf in pdf_docs:  
        pdf_reader = PdfReader(pdf)  
        for page in pdf_reader.pages:  
            text += page.extract_text()  
    return text  
  
def get_text_chunks(text):  
    text_splitter = RecursiveCharacterTextSplitter(chunk_size=10000,  
    chunk_overlap=1000)  
    chunks = text_splitter.split_text(text)  
    return chunks  
  
def get_vector_store(text_chunks, api_key):  
    embeddings = GoogleGenerativeAIEmbeddings(model="models/embedding-001",  
    google_api_key=api_key)  
    vector_store = FAISS.from_texts(text_chunks, embedding=embeddings)  
    vector_store.save_local("faiss_index")  
  
def get_conversational_chain():
```

```

prompt_template = """
    Answer the question as detailed as possible from the provided context, make
    sure to provide all the details, if the answer is not in
    provided context just say, "answer is not available in the context", don't
    provide the wrong answer\n\n
    Context:\n {context}?\n
    Question: \n{question}\n

    Answer:
    """

model = ChatGoogleGenerativeAI(model="gemini-pro", temperature=0.3,
    google_api_key=api_key)
prompt = PromptTemplate(template=prompt_template,
    input_variables=["context", "question"])
chain = load_qa_chain(model, chain_type="stuff", prompt=prompt)
return chain

def user_input(user_question, api_key):
    embeddings = GoogleGenerativeAIEmbeddings(model="models/embedding-001",
    google_api_key=api_key)
    new_db = FAISS.load_local("faiss_index", embeddings,
    allow_dangerous_deserialization=True)
    docs = new_db.similarity_search(user_question)
    chain = get_conversational_chain()
    response = chain({"input_documents": docs, "question": user_question},
    return_only_outputs=True)
    st.write("Reply: ", response["output_text"])

def main():
    st.header("AI clone chatbot ")

    user_question = st.text_input("Ask a Question from the PDF Files",
    key="user_question")

    if user_question and api_key: # Ensure API key and user question are
    provided
        user_input(user_question, api_key)

    with st.sidebar:
        st.title("Menu:")
        pdf_docs = st.file_uploader("Upload your PDF Files and Click on the
    Submit & Process Button", accept_multiple_files=True, key="pdf_uploader")
        if st.button("Submit & Process", key="process_button") and api_key: #
    Check if API key is provided before processing
            with st.spinner("Processing..."):
                raw_text = get_pdf_text(pdf_docs)

```

```

        text_chunks = get_text_chunks(raw_text)
        get_vector_store(text_chunks, api_key)
        st.success("Done")

if __name__ == "__main__":
    main()

```

Writing app.py

```

[9]: !pip install pyngrok
from pyngrok import ngrok

# Set your auth token (if you haven't already)
ngrok.set_auth_token("2k1uqGWDZon8mzH77bJDbw2bQpQ_7HrpzxF8hid6Rw2kA7gEm")

# Start your Streamlit app without creating a tunnel yet
!nohup streamlit run app.py --server.port 80 &

# Now connect ngrok to the running Streamlit app
url = ngrok.connect(addr='80')
print(url)

```

Requirement already satisfied: pyngrok in /usr/local/lib/python3.10/dist-packages (7.2.0)

Requirement already satisfied: PyYAML>=5.1 in /usr/local/lib/python3.10/dist-packages (from pyngrok) (6.0.1)

nohup: appending output to 'nohup.out'

NgrokTunnel: "https://8223-34-73-196-79.ngrok-free.app" -> "http://localhost:80"

```

[10]: # List active tunnels
active_tunnels = ngrok.get_tunnels()
print(active_tunnels)

# Disconnect all active tunnels
for tunnel in active_tunnels:
    ngrok.disconnect(tunnel.public_url)

# Now try connecting again
url = ngrok.connect(addr='80')
print(url)

```

WARNING:pyngrok.process.ngrok:t=2024-08-01T00:24:58+0000 lvl=warn msg="Stopping forwarder" name=http-80-68f77a6e-0e38-4d4f-8a94-0ac98a7809c1 acceptErr="failed to accept connection: Listener closed"

[<NgrokTunnel: "https://8223-34-73-196-79.ngrok-free.app" -> "http://localhost:80">]

NgrokTunnel: "https://06d5-34-73-196-79.ngrok-free.app" -> "http://localhost:80"

```
[7]: ngrok.connect(addr = '8080')
```

```
[7]: <NgrokTunnel: "https://cfaa-34-73-196-79.ngrok-free.app" ->  
"http://localhost:8080">
```

```
[8]: from pyngrok import ngrok  
  
tunnels = ngrok.get_tunnels()  
tunnels
```

```
[8]: [<NgrokTunnel: "https://2bb3-34-73-196-79.ngrok-free.app" ->  
"http://localhost:80">,  
      <NgrokTunnel: "https://cfaa-34-73-196-79.ngrok-free.app" ->  
"http://localhost:8080">]
```

Run streamlit using localtunnel

npm installation would take some time for the first time