## Practical - 05

!pip install streamlit chromadb sentence-transformers PyMuPDF langchain-community ollama Collecting streamlit

Downloading streamlit-1.44.1-py3-none-any.whl.metadata (8.9 kB)

Collecting chromadb

Downloading chromadb-0.6.3-py3-none-any.whl.metadata (6.8 kB)

Requirement already satisfied: sentence-transformers in

/usr/local/lib/python3.11/Collecting PyMuPDF

Downloading pymupdf-1.25.5-cp39-abi3-

manylinux2014\_x86\_64.manylinux\_2\_17\_x86\_64.Collecting langehain-community

Downloading langchain community-0.3.20-py3-none-any.whl.metadata (2.4 kB)

Collecting ollama

Downloading ollama-0.4.7-py3-none-any.whl.metadata (4.7 kB)

Collecting ngrok

Downloading ngrok-1.4.0-cp37-abi3-

manylinux 2 17 x86 64.manylinux2014 x86 64.whl.Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: blinker<2,>=1.0.0 in /usr/local/lib/python3.11/dist-Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.11/dist-Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: numpy<3,>=1.23 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: packaging<25,>=20 in /usr/local/lib/python3.11/dist-Requirement already satisfied: pandas<3,>=1.4.0 in /usr/local/lib/python3.11/dist-Requirement already satisfied: pillow<12,>=7.1.0 in /usr/local/lib/python3.11/dist-Requirement already satisfied: protobuf<6,>=3.20 in /usr/local/lib/python3.11/dist-Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.11/dist-Requirement already satisfied: tenacity<10,>=8.1.0 in /usr/local/lib/python3.11/dist-Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: typing-extensions<5,>=4.4.0 in /usr/local/lib/python3.11/Collecting watchdog<7,>=2.1.5 (from streamlit)

Downloading watchdog-6.0.0-py3-none-manylinux2014 x86 64.whl.metadata (44 kB)

--- 44.3/44.3 kB 3.8 MB/s eta 0:00:00

Requirement already satisfied: gitpython!=3.1.19,<4,>=3.0.7 in /usr/local/lib/python3.11/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/python3.11/dist-

Collecting build>=1.0.3 (from chromadb)

Downloading build-1.2.2.post1-py3-none-any.whl.metadata (6.5 kB)

Requirement already satisfied: pydantic>=1.9 in /usr/local/lib/python3.11/dist-packages

Collecting chroma-hnswlib==0.7.6 (from chromadb)

Downloading chroma\_hnswlib-0.7.6-cp311-cp311-

manylinux 2 17 x86 64.manylinux2014 Collecting fastapi>=0.95.2 (from chromadb)

Downloading fastapi-0.115.12-py3-none-any.whl.metadata (27 kB)

Collecting uvicorn>=0.18.3 (from uvicorn[standard]>=0.18.3->chromadb)

Downloading uvicorn-0.34.0-py3-none-any.whl.metadata (6.5 kB)

Collecting posthog>=2.4.0 (from chromadb)

Downloading posthog-3.23.0-py2.py3-none-any.whl.metadata (3.0 kB)

Collecting onnxruntime>=1.14.1 (from chromadb)

Downloading onnxruntime-1.21.0-cp311-cp311-

manylinux 2 27 x86 64.manylinux 2 28 Requirement already satisfied: opentelemetryapi>=1.2.0 in /usr/local/lib/python3.11/Collecting opentelemetry-exporter-otlp-protogrpc>=1.2.0 (from chromadb)

Downloading opentelemetry exporter otlp proto grpc-1.31.1-py3-none-any.whl.metadata

Collecting opentelemetry-instrumentation-fastapi>=0.41b0 (from chromadb)

Downloading opentelemetry instrumentation fastapi-0.52b1-py3-none-any.whl.metadata

Requirement already satisfied: opentelemetry-sdk>=1.2.0 in

/usr/local/lib/python3.11/Requirement already satisfied: tokenizers>=0.13.2 in

/usr/local/lib/python3.11/dist-Collecting pypika>=0.48.9 (from chromadb)

Downloading PyPika-0.48.9.tar.gz (67 kB)

Downloading PyPika-0.48.9.tar.gz (67 kB)

- 67.3/67.3 kB 4.9 MB/s eta 0:00:00

Installing build dependencies ... done

Getting requirements to build wheel ... done

!pip install colab-xterm

Collecting colab-xterm

Downloading colab xterm-0.2.0-py3-none-any.whl.metadata (1.2 kB)

Requirement already satisfied: ptyprocess~=0.7.0 in /usr/local/lib/python3.11/dist-

Requirement already satisfied: tornado>5.1 in /usr/local/lib/python3.11/dist-packages

Downloading colab\_xterm-0.2.0-py3-none-any.whl (115 kB)

- 115.6/115.6 kB 6.2 MB/s eta 0:00:00

Installing collected packages: colab-xterm Successfully installed colab-xterm-0.2.0

%load\_ext colabxterm %xterm

Browse... No Ples selected. Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving requirements.txt to requirements.txt

Saving app.py to app.py

from google.colab import files

uploaded = files.upload()

!wget -q -O - ipv4.icanhazip.com

34.90.154.164

!ollama

Usage:

ollama [flags]

ollama [command]

Available Commands:

serve Start ollama

create Create a model from a Modelfile

show Show information for a model

run Run a model

stop Stop a running model

pull Pull a model from a registry

push Push a model to a registry

list List models

ps List running models

cp Copy a model

rm Remove a model

help Help about any command

## Flags:

-h, --help help for ollama

-v, --version Show version information

-v, --version Show version information

Use "ollama [command] --help" for more information about a command.

!ollama serve & ollama list

2025/04/02 06:55:43 routes.go:1230: INFO server config

env="map[CUDA\_VISIBLE\_DEVICES: time=2025-04-02T06:55:43.477Z level=INFO

source=images.go:432 msg="total blobs: 10"

time=2025-04-02T06:55:43.477Z level=INFO source=images.go:439 msg="total unused blobs time=2025-04-02T06:55:43.477Z level=INFO source=routes.go:1297 msg="Listening on 127.0.0.1:time=2025-04-02T06:55:43.477Z level=INFO source=gpu.go:217 msg="looking for compatible time=2025-04-02T06:55:43.619Z level=INFO source=types.go:130 msg="inference compute" [GIN] 2025/04/02 - 06:55:43 | 200 | 78.566 $\mu$ s | 127.0.0.1 | HEAD [GIN] 2025/04/02 - 06:55:43 | 200 | 1.756852ms | 127.0.0.1 | GET

## NAME ID SIZE MODIFIED

nomic-embed-text:latest 0a109f422b47 274 MB 11 minutes ago

llama3.2:3b a80c4f17acd5 2.0 GB 11 minutes ago

!ollama list

Error: could not connect to ollama app, is it running?

!streamlit run app.py & npx localtunnel --port 8501

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

\*\* \*\*

## :::your url is: https://bright-lamps-brake.loca.lt

2025-04-02 06:56:51.926768: E

external/local\_xla/xla/stream\_executor/cuda/cuda\_fft.WARNING: All log messages before absl::InitializeLog() is called are written to STDERR

E0000 00:00:1743577011.952269 9340 cuda\_dnn.cc:8310] Unable to register cuDNN factory: E0000 00:00:1743577011.959733 9340 cuda\_blas.cc:1418] Unable to register cuBLAS 2025-04-02 06:56:51.985156: I

tensorflow/core/platform/cpu\_feature\_guard.cc:210] This To enable the following instructions: AVX2 AVX512F FMA, in other operations, rebuild 2025-04-02 06:56:56.563 Examining the path of torch.classes raised:

Traceback (most recent call last):

File "/usr/local/lib/python3.11/dist-packages/streamlit/web/bootstrap.py", line if asyncio.get\_running\_loop().is\_running():

^^^^^^

RuntimeError: no running event loop

During handling of the above exception, another exception occurred:

Traceback (most recent call last):

File "/usr/local/lib/python3.11/dist-

packages/streamlit/watcher/local\_sources\_watcher.potential\_paths =

extract\_paths(module)

^^^^^^

File "/usr/local/lib/python3.11/dist-

packages/streamlit/watcher/local\_sources\_watcher.lambda m: list(m.\_\_path\_\_.\_path),

File "/usr/local/lib/python3.11/dist-packages/torch/ classes.py", line 13, in proxy = torch. C. get custom class python wrapper(self.name, attr) ^^^^^^ RuntimeError: Tried to instantiate class '\_\_path\_\_.\_path', but it does not exist! 2025-04-02 06:57:52.964 Examining the path of torch.classes raised: Traceback (most recent call last): File "/usr/local/lib/python3.11/dist-packages/streamlit/web/bootstrap.py", line if asyncio.get running loop().is running(): ^^^^^^ RuntimeError: no running event loop During handling of the above exception, another exception occurred: Traceback (most recent call last): File "/usr/local/lib/python3.11/distpackages/streamlit/watcher/local\_sources\_watcher.potential\_paths = extract paths(module) File "/usr/local/lib/python3.11/distpackages/streamlit/watcher/local\_sources\_watcher.lambda m: list(m. path . path),  $\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda\Lambda$ File "/usr/local/lib/python3.11/dist-packages/torch/ classes.py", line 13, in proxy = torch. C. get custom class python wrapper(self.name, attr) RuntimeError: Tried to instantiate class '\_\_path\_\_.\_path', but it does not exist





