



Cycle	Filière	Spécialité
Qualification des cadres d'enseignement	Enseignement secondaire	Informatique

Documentation

➤ Travail réalisé par

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1. Install Ollama and run a model (we use mistral)

- To install ollama visite this link [install ollama](#).
- To run the Mistral model using OLLAMA

```
eddada@eddada-HP-EliteBook-840-G3:~$ ollama run mistral
pulling manifest
pulling e8a35b5937a5... 100% 4.1 GB
pulling 43070e2d4e53... 100% 11 KB
pulling e6836092461f... 100% 42 B
pulling ed11eda7790d... 100% 30 B
pulling f9b1e3196ecf... 100% 483 B
verifying sha256 digest
writing manifest
removing any unused layers
success
>>> give me a joke
Why don't scientists trust atoms?

Because they make up everything!
```

2. Step a Virtual Environment

- Create a virtual environment

```
(base) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/Ollama/2-ollama-privateGPT-chat-with-docs$ conda create -n private1 python=3.11
Channels:
 - defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/eddada/miniconda3/envs/private1

added / updated specs:
 - python=3.11
```

- Activate the virtual environment

```
a-privateGPT-chat-with-docs$ conda activate private1
(private1) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/Ollama/2-ollama-privateGPT-chat-with-docs$
```

3. Install the Requirements :

- These are the requirements that we need to install

```
packages : langchain==0.0.274
gpt4all==1.0.8
chromadb==0.4.7
llama-cpp-python==0.1.81
urllib3==2.0.4
PyMuPDF==1.23.5
python-dotenv==1.0.0
unstructured==0.10.8
extract-msg==0.45.0
tabulate==0.9.0
pandoc==2.3
pypandoc==1.11
tqdm==4.66.1
sentence_transformers==2.2.2
```

```
llama-privateGPT-chat-with-docs$ pip install -r requirements.txt
Collecting langchain==0.0.274 (from -r requirements.txt (line 1))
  Downloading langchain-0.0.274-py3-none-any.whl.metadata (14 kB)
Collecting gpt4all==1.0.8 (from -r requirements.txt (line 2))
  Downloading gpt4all-1.0.8-py3-none-manylinux1_x86_64.whl.metadata (912 bytes)
Collecting chromadb==0.4.7 (from -r requirements.txt (line 3))
  Downloading chromadb-0.4.7-py3-none-any.whl.metadata (6.9 kB)
Collecting llama-cpp-python==0.1.81 (from -r requirements.txt (line 4))
  Downloading llama_cpp_python-0.1.81.tar.gz (1.8 MB)
  1.8/1.8 MB 874.9 kB/s eta 0:00:00
Installing build dependencies ... done
Getting requirements to build wheel ... done
Preparing metadata (pyproject.toml) ... done
Collecting urllib3==2.0.4 (from -r requirements.txt (line 5))
  Downloading urllib3-2.0.4-py3-none-any.whl.metadata (6.6 kB)
Collecting PyMuPDF==1.23.5 (from -r requirements.txt (line 6))
```

4. Pull the models

Make sure to have Ollama running on your system from [ollama](#).

```
(base) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/ollama/2-ollama-privateGPT-chat-with-docs$ ollama pull mistral
pulling manifest
pulling e8a35b5937a5... 100%
4.1 GB
pulling 43070e2d4e53... 100%
11 KB
pulling e6836092461f... 100%
42 B
pulling ed11eda7790d... 100%
30 B
pulling f9b1e3196ecf... 100%
```

5. Put your files in the source_documents folder after making a directory

```
(base) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/ollama/2-ollama-privateGPT-chat-with-docs$ mkdir source_documents
(base) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/ollama/2-ollama-privateGPT-chat-with-docs$
```

6. Ingest the files (use python3 if on mac)

```
ma-privateGPT-chat-with-docs$ python ingest.py
.gitattributes: 100%|
| 1.23k/1.23k [00:00<00:00, 2.59MB/s]
1 Pooling/config.json: 100%|
| 190/190 [00:00<00:00, 488kB/s]
README.md: 100%|
| 10.7k/10.7k [00:00<00:00, 13.6MB/s]
config.json: 100%|
| 612/612 [00:00<00:00, 2.68MB/s]
config_sentence_transformers.json: 100%|
| 116/116 [00:00<00:00, 252kB/s]
```

7. Run this command :

```
(base) eddada@eddada-HP-EliteBook-840-G3:~/Desktop/chat-with-docs/ollama/2-ollama-privateGPT-chat-with-docs$ python privateGPT.py

Enter a query: what is The First Principle in The Science of Getting Rich.
In "The Science of Getting Rich," the first principle is the belief in three
fundamental truths: (1) that we can create what we want to create, (2) that we
can get what we want to have, and (3) that we can become what we want to be.
This belief sets the foundation for applying the laws of acquiring riches and
achieving wealth with mathematical certainty.

> Question:
what is The First Principle in The Science of Getting Rich.
In "The Science of Getting Rich," the first principle is the belief in three
fundamental truths: (1) that we can create what we want to create, (2) that we
can get what we want to have, and (3) that we can become what we want to be.
This belief sets the foundation for applying the laws of acquiring riches and
achieving wealth with mathematical certainty.

> source_documents/The-Science-of-Getting-Rich.pdf:
©Copyright 2006 The Secret LLC
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```

Play with your docs (the document we use is : The-Science-of-Getting-Rich)

Document :

Enter a query: What is The First Principle in The Science of Getting Rich?