

Notebook

April 23, 2025

1 Implementación de RAG usando LangChain

Diseñar e implementar un sistema básico de **RAG (Retrieval-Augmented Generation)** usando **LangChainLinks**. que pueda responder preguntas utilizando información contenida en un conjunto de documentos locales.

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2 Parte 1: Preparación del entorno

1. Instala las librerías necesarias (puede usarse un entorno Colab o local): langchain, faiss-cpu, openai, tiktoken

```
[1]: !pip install langchain faiss-cpu openai tiktoken
```

```
Requirement already satisfied: langchain in /usr/local/lib/python3.11/dist-packages (0.3.23)
```

```
Collecting faiss-cpu
```

```
  Downloading faiss_cpu-1.10.0-cp311-cp311-manylinux_2_28_x86_64.whl.metadata (4.4 kB)
```

```
Requirement already satisfied: openai in /usr/local/lib/python3.11/dist-packages (1.75.0)
```

```
Collecting tiktoken
```

```
  Downloading tiktoken-0.9.0-cp311-cp311-manylinux_2_17_x86_64.whl.metadata (6.7 kB)
```

```
Requirement already satisfied: langchain-core<1.0.0,>=0.3.51 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.52)
```

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Requirement already satisfied: langchain-text-splitters<1.0.0,>=0.3.8 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.8)
```

```
Requirement already satisfied: langsmith<0.4,>=0.1.17 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.31)
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```
Requirement already satisfied: pydantic<3.0.0,>=2.7.4 in /usr/local/lib/python3.11/dist-packages (from langchain) (2.11.3)
```

```
Requirement already satisfied: SQLAlchemy<3,>=1.4 in /usr/local/lib/python3.11/dist-packages (from langchain) (2.0.40)
```

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Requirement already satisfied: requests<3,>=2 in /usr/local/lib/python3.11/dist-packages (from langchain) (2.32.3)
```

```
Requirement already satisfied: PyYAML<=5.3 in /usr/local/lib/python3.11/dist-packages (from langchain) (6.0.2)
```

Requirement already satisfied: numpy<3.0,>=1.25.0 in /usr/local/lib/python3.11/dist-packages (from faiss-cpu) (2.0.2)

Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from faiss-cpu) (24.2)

Requirement already satisfied: anyio<5,>=3.5.0 in /usr/local/lib/python3.11/dist-packages (from openai) (4.9.0)

Requirement already satisfied: distro<2,>=1.7.0 in /usr/local/lib/python3.11/dist-packages (from openai) (1.9.0)

Requirement already satisfied: httpx<1,>=0.23.0 in /usr/local/lib/python3.11/dist-packages (from openai) (0.28.1)

Requirement already satisfied: jiter<1,>=0.4.0 in /usr/local/lib/python3.11/dist-packages (from openai) (0.9.0)

Requirement already satisfied: sniffio in /usr/local/lib/python3.11/dist-packages (from openai) (1.3.1)

Requirement already satisfied: tqdm>4 in /usr/local/lib/python3.11/dist-packages (from openai) (4.67.1)

Requirement already satisfied: typing-extensions<5,>=4.11 in /usr/local/lib/python3.11/dist-packages (from openai) (4.13.2)

Requirement already satisfied: regex>=2022.1.18 in /usr/local/lib/python3.11/dist-packages (from tiktoken) (2024.11.6)

Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5,>=3.5.0->openai) (3.10)

Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx<1,>=0.23.0->openai) (2025.1.31)

Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-packages (from httpx<1,>=0.23.0->openai) (1.0.8)

Requirement already satisfied: h11<0.15,>=0.13 in /usr/local/lib/python3.11/dist-packages (from httpcore==1.*->httpx<1,>=0.23.0->openai) (0.14.0)

Requirement already satisfied: tenacity!=8.4.0,<10.0.0,>=8.1.0 in /usr/local/lib/python3.11/dist-packages (from langchain-core<1.0.0,>=0.3.51->langchain) (9.1.2)

Requirement already satisfied: jsonpatch<2.0,>=1.33 in /usr/local/lib/python3.11/dist-packages (from langchain-core<1.0.0,>=0.3.51->langchain) (1.33)

Requirement already satisfied: orjson<4.0.0,>=3.9.14 in /usr/local/lib/python3.11/dist-packages (from langsmith<0.4,>=0.1.17->langchain) (3.10.16)

Requirement already satisfied: requests-toolbelt<2.0.0,>=1.0.0 in /usr/local/lib/python3.11/dist-packages (from langsmith<0.4,>=0.1.17->langchain) (1.0.0)

Requirement already satisfied: zstandard<0.24.0,>=0.23.0 in /usr/local/lib/python3.11/dist-packages (from langsmith<0.4,>=0.1.17->langchain) (0.23.0)

Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.11/dist-packages (from pydantic<3.0.0,>=2.7.4->langchain) (0.7.0)

Requirement already satisfied: pydantic-core==2.33.1 in

```

/usr/local/lib/python3.11/dist-packages (from pydantic<3.0.0,>=2.7.4->langchain)
(2.33.1)
Requirement already satisfied: typing-inspection>=0.4.0 in
/usr/local/lib/python3.11/dist-packages (from pydantic<3.0.0,>=2.7.4->langchain)
(0.4.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain) (3.4.1)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain) (2.3.0)
Requirement already satisfied: greenlet>=1 in /usr/local/lib/python3.11/dist-
packages (from SQLAlchemy<3,>=1.4->langchain) (3.2.0)
Requirement already satisfied: jsonpointer>=1.9 in
/usr/local/lib/python3.11/dist-packages (from jsonpatch<2.0,>=1.33->langchain-
core<1.0.0,>=0.3.51->langchain) (3.0.0)
Downloading faiss_cpu-1.10.0-cp311-cp311-manylinux_2_28_x86_64.whl (30.7 MB)
30.7/30.7 MB
32.0 MB/s eta 0:00:00
Downloading
tiktoken-0.9.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.2
MB)
1.2/1.2 MB
33.5 MB/s eta 0:00:00
Installing collected packages: faiss-cpu, tiktoken
Successfully installed faiss-cpu-1.10.0 tiktoken-0.9.0

```

```
[4]: !pip install langchain-community
```

```

Collecting langchain-community
  Downloading langchain_community-0.3.22-py3-none-any.whl.metadata (2.4 kB)
Collecting langchain-core<1.0.0,>=0.3.55 (from langchain-community)
  Downloading langchain_core-0.3.55-py3-none-any.whl.metadata (5.9 kB)
Collecting langchain<1.0.0,>=0.3.24 (from langchain-community)
  Downloading langchain-0.3.24-py3-none-any.whl.metadata (7.8 kB)
Requirement already satisfied: SQLAlchemy<3,>=1.4 in
/usr/local/lib/python3.11/dist-packages (from langchain-community) (2.0.40)
Requirement already satisfied: requests<3,>=2 in /usr/local/lib/python3.11/dist-
packages (from langchain-community) (2.32.3)
Requirement already satisfied: PyYAML>=5.3 in /usr/local/lib/python3.11/dist-
packages (from langchain-community) (6.0.2)
Requirement already satisfied: aiohttp<4.0.0,>=3.8.3 in
/usr/local/lib/python3.11/dist-packages (from langchain-community) (3.11.15)
Requirement already satisfied: tenacity!=8.4.0,<10,>=8.1.0 in
/usr/local/lib/python3.11/dist-packages (from langchain-community) (9.1.2)
Requirement already satisfied: dataclasses-json<0.7,>=0.5.7 in
/usr/local/lib/python3.11/dist-packages (from langchain-community) (0.6.7)
Collecting pydantic-settings<3.0.0,>=2.4.0 (from langchain-community)
  Downloading pydantic_settings-2.9.1-py3-none-any.whl.metadata (3.8 kB)
Requirement already satisfied: langsmith<0.4,>=0.1.125 in

```

```

/usr/local/lib/python3.11/dist-packages (from langchain-community) (0.3.31)
Collecting httpx-sse<1.0.0,>=0.4.0 (from langchain-community)
  Downloading httpx_sse-0.4.0-py3-none-any.whl.metadata (9.0 kB)
Requirement already satisfied: numpy>=1.26.2 in /usr/local/lib/python3.11/dist-
packages (from langchain-community) (2.0.2)
Requirement already satisfied: aiohappyeyeballs>=2.3.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (2.6.1)
Requirement already satisfied: aiosignal>=1.1.2 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (1.3.2)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.11/dist-
packages (from aiohttp<4.0.0,>=3.8.3->langchain-community) (25.3.0)
Requirement already satisfied: frozenlist>=1.1.1 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (1.5.0)
Requirement already satisfied: multidict<7.0,>=4.5 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (6.4.3)
Requirement already satisfied: propcache>=0.2.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (0.3.1)
Requirement already satisfied: yarl<2.0,>=1.17.0 in
/usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain-
community) (1.19.0)
Requirement already satisfied: marshmallow<4.0.0,>=3.18.0 in
/usr/local/lib/python3.11/dist-packages (from dataclasses-
json<0.7,>=0.5.7->langchain-community) (3.26.1)
Requirement already satisfied: typing-inspect<1,>=0.4.0 in
/usr/local/lib/python3.11/dist-packages (from dataclasses-
json<0.7,>=0.5.7->langchain-community) (0.9.0)
Requirement already satisfied: langchain-text-splitters<1.0.0,>=0.3.8 in
/usr/local/lib/python3.11/dist-packages (from
langchain<1.0.0,>=0.3.24->langchain-community) (0.3.8)
Requirement already satisfied: pydantic<3.0.0,>=2.7.4 in
/usr/local/lib/python3.11/dist-packages (from
langchain<1.0.0,>=0.3.24->langchain-community) (2.11.3)
Requirement already satisfied: jsonpatch<2.0,>=1.33 in
/usr/local/lib/python3.11/dist-packages (from langchain-
core<1.0.0,>=0.3.55->langchain-community) (1.33)
Requirement already satisfied: packaging<25,>=23.2 in
/usr/local/lib/python3.11/dist-packages (from langchain-
core<1.0.0,>=0.3.55->langchain-community) (24.2)
Requirement already satisfied: typing-extensions>=4.7 in
/usr/local/lib/python3.11/dist-packages (from langchain-
core<1.0.0,>=0.3.55->langchain-community) (4.13.2)
Requirement already satisfied: httpx<1,>=0.23.0 in
/usr/local/lib/python3.11/dist-packages (from

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langsmith<0.4,>=0.1.125->langchain-community) (0.28.1)
 Requirement already satisfied: orjson<4.0.0,>=3.9.14 in
 /usr/local/lib/python3.11/dist-packages (from
 langsmith<0.4,>=0.1.125->langchain-community) (3.10.16)
 Requirement already satisfied: requests-toolbelt<2.0.0,>=1.0.0 in
 /usr/local/lib/python3.11/dist-packages (from
 langsmith<0.4,>=0.1.125->langchain-community) (1.0.0)
 Requirement already satisfied: zstandard<0.24.0,>=0.23.0 in
 /usr/local/lib/python3.11/dist-packages (from
 langsmith<0.4,>=0.1.125->langchain-community) (0.23.0)
 Collecting python-dotenv>=0.21.0 (from pydantic-
 settings<3.0.0,>=2.4.0->langchain-community)
 Downloading python_dotenv-1.1.0-py3-none-any.whl.metadata (24 kB)
 Requirement already satisfied: typing-inspection>=0.4.0 in
 /usr/local/lib/python3.11/dist-packages (from pydantic-
 settings<3.0.0,>=2.4.0->langchain-community) (0.4.0)
 Requirement already satisfied: charset-normalizer<4,>=2 in
 /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain-
 community) (3.4.1)
 Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-
 packages (from requests<3,>=2->langchain-community) (3.10)
 Requirement already satisfied: urllib3<3,>=1.21.1 in
 /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain-
 community) (2.3.0)
 Requirement already satisfied: certifi>=2017.4.17 in
 /usr/local/lib/python3.11/dist-packages (from requests<3,>=2->langchain-
 community) (2025.1.31)
 Requirement already satisfied: greenlet>=1 in /usr/local/lib/python3.11/dist-
 packages (from SQLAlchemy<3,>=1.4->langchain-community) (3.2.0)
 Requirement already satisfied: anyio in /usr/local/lib/python3.11/dist-packages
 (from httpx<1,>=0.23.0->langsmith<0.4,>=0.1.125->langchain-community) (4.9.0)
 Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-
 packages (from httpx<1,>=0.23.0->langsmith<0.4,>=0.1.125->langchain-community)
 (1.0.8)
 Requirement already satisfied: h11<0.15,>=0.13 in
 /usr/local/lib/python3.11/dist-packages (from
 httpcore==1.*->httpx<1,>=0.23.0->langsmith<0.4,>=0.1.125->langchain-community)
 (0.14.0)
 Requirement already satisfied: jsonpointer>=1.9 in
 /usr/local/lib/python3.11/dist-packages (from jsonpatch<2.0,>=1.33->langchain-
 core<1.0.0,>=0.3.55->langchain-community) (3.0.0)
 Requirement already satisfied: annotated-types>=0.6.0 in
 /usr/local/lib/python3.11/dist-packages (from
 pydantic<3.0.0,>=2.7.4->langchain<1.0.0,>=0.3.24->langchain-community) (0.7.0)
 Requirement already satisfied: pydantic-core==2.33.1 in
 /usr/local/lib/python3.11/dist-packages (from
 pydantic<3.0.0,>=2.7.4->langchain<1.0.0,>=0.3.24->langchain-community) (2.33.1)
 Requirement already satisfied: mypy-extensions>=0.3.0 in

```

/usr/local/lib/python3.11/dist-packages (from typing-
inspect<1,>=0.4.0->dataclasses-json<0.7,>=0.5.7->langchain-community) (1.1.0)
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-
packages (from anyio->httpx<1,>=0.23.0->langsmith<0.4,>=0.1.125->langchain-
community) (1.3.1)
Downloading langchain_community-0.3.22-py3-none-any.whl (2.5 MB)
2.5/2.5 MB
55.0 MB/s eta 0:00:00
Downloading httpx_sse-0.4.0-py3-none-any.whl (7.8 kB)
Downloading langchain-0.3.24-py3-none-any.whl (1.0 MB)
1.0/1.0 MB
41.5 MB/s eta 0:00:00
Downloading langchain_core-0.3.55-py3-none-any.whl (434 kB)
434.1/434.1 kB
29.1 MB/s eta 0:00:00
Downloading pydantic_settings-2.9.1-py3-none-any.whl (44 kB)
44.4/44.4 kB
3.5 MB/s eta 0:00:00
Downloading python_dotenv-1.1.0-py3-none-any.whl (20 kB)
Installing collected packages: python-dotenv, httpx-sse, pydantic-settings,
langchain-core, langchain, langchain-community
  Attempting uninstall: langchain-core
    Found existing installation: langchain-core 0.3.52
    Uninstalling langchain-core-0.3.52:
      Successfully uninstalled langchain-core-0.3.52
  Attempting uninstall: langchain
    Found existing installation: langchain 0.3.23
    Uninstalling langchain-0.3.23:
      Successfully uninstalled langchain-0.3.23
Successfully installed httpx-sse-0.4.0 langchain-0.3.24 langchain-
community-0.3.22 langchain-core-0.3.55 pydantic-settings-2.9.1 python-
dotenv-1.1.0

```

```

[2]: !pip install unstructured pdf2docx # Para archivos más complejos
!pip install beautifulsoup4 # Para un mejor parsing de HTML

```

```

Collecting unstructured
  Downloading unstructured-0.17.2-py3-none-any.whl.metadata (24 kB)
Collecting pdf2docx
  Downloading pdf2docx-0.5.8-py3-none-any.whl.metadata (3.2 kB)
Requirement already satisfied: chardet in /usr/local/lib/python3.11/dist-
packages (from unstructured) (5.2.0)
Collecting filetype (from unstructured)
  Downloading filetype-1.2.0-py2.py3-none-any.whl.metadata (6.5 kB)
Collecting python-magic (from unstructured)
  Downloading python_magic-0.4.27-py2.py3-none-any.whl.metadata (5.8 kB)
Requirement already satisfied: lxml in /usr/local/lib/python3.11/dist-packages
(from unstructured) (5.3.2)

```

Requirement already satisfied: nltk in /usr/local/lib/python3.11/dist-packages (from unstructured) (3.9.1)

Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from unstructured) (2.32.3)

Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.11/dist-packages (from unstructured) (4.13.4)

Collecting emoji (from unstructured)

 Downloading emoji-2.14.1-py3-none-any.whl.metadata (5.7 kB)

Collecting dataclasses-json (from unstructured)

 Downloading dataclasses_json-0.6.7-py3-none-any.whl.metadata (25 kB)

Collecting python-iso639 (from unstructured)

 Downloading python_iso639-2025.2.18-py3-none-any.whl.metadata (14 kB)

Collecting langdetect (from unstructured)

 Downloading langdetect-1.0.9.tar.gz (981 kB)

 981.5/981.5 kB

47.8 MB/s eta 0:00:00

 Preparing metadata (setup.py) ... done

Requirement already satisfied: numpy in /usr/local/lib/python3.11/dist-packages (from unstructured) (2.0.2)

Collecting rapidfuzz (from unstructured)

 Downloading rapidfuzz-3.13.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (12 kB)

Collecting backoff (from unstructured)

 Downloading backoff-2.2.1-py3-none-any.whl.metadata (14 kB)

Requirement already satisfied: typing-extensions in /usr/local/lib/python3.11/dist-packages (from unstructured) (4.13.2)

Collecting unstructured-client (from unstructured)

 Downloading unstructured_client-0.34.0-py3-none-any.whl.metadata (21 kB)

Requirement already satisfied: wrapt in /usr/local/lib/python3.11/dist-packages (from unstructured) (1.17.2)

Requirement already satisfied: tqdm in /usr/local/lib/python3.11/dist-packages (from unstructured) (4.67.1)

Requirement already satisfied: psutil in /usr/local/lib/python3.11/dist-packages (from unstructured) (5.9.5)

Collecting python-oxmsg (from unstructured)

 Downloading python_oxmsg-0.0.2-py3-none-any.whl.metadata (5.0 kB)

Requirement already satisfied: html5lib in /usr/local/lib/python3.11/dist-packages (from unstructured) (1.1)

Collecting PyMuPDF>=1.19.0 (from pdf2docx)

 Downloading

pymupdf-1.25.5-cp39-abi3-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (3.4 kB)

Collecting python-docx>=0.8.10 (from pdf2docx)

 Downloading python_docx-1.1.2-py3-none-any.whl.metadata (2.0 kB)

Requirement already satisfied: fonttools>=4.24.0 in /usr/local/lib/python3.11/dist-packages (from pdf2docx) (4.57.0)

Requirement already satisfied: opencv-python-headless>=4.5 in /usr/local/lib/python3.11/dist-packages (from pdf2docx) (4.11.0.86)

```

Collecting fire>=0.3.0 (from pdf2docx)
  Downloading fire-0.7.0.tar.gz (87 kB)
      87.2/87.2 kB
7.5 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: termcolor in /usr/local/lib/python3.11/dist-packages (from fire>=0.3.0->pdf2docx) (3.0.1)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.11/dist-packages (from beautifulsoup4->unstructured) (2.6)
Collecting marshmallow<4.0.0,>=3.18.0 (from dataclasses-json->unstructured)
  Downloading marshmallow-3.26.1-py3-none-any.whl.metadata (7.3 kB)
Collecting typing-inspect<1,>=0.4.0 (from dataclasses-json->unstructured)
  Downloading typing_inspect-0.9.0-py3-none-any.whl.metadata (1.5 kB)
Requirement already satisfied: six>=1.9 in /usr/local/lib/python3.11/dist-packages (from html5lib->unstructured) (1.17.0)
Requirement already satisfied: webencodings in /usr/local/lib/python3.11/dist-packages (from html5lib->unstructured) (0.5.1)
Requirement already satisfied: click in /usr/local/lib/python3.11/dist-packages (from nltk->unstructured) (8.1.8)
Requirement already satisfied: joblib in /usr/local/lib/python3.11/dist-packages (from nltk->unstructured) (1.4.2)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.11/dist-packages (from nltk->unstructured) (2024.11.6)
Collecting olefile (from python-oxmsg->unstructured)
  Downloading olefile-0.47-py2.py3-none-any.whl.metadata (9.7 kB)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->unstructured) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests->unstructured) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->unstructured) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests->unstructured) (2025.1.31)
Collecting aiofiles>=24.1.0 (from unstructured-client->unstructured)
  Downloading aiofiles-24.1.0-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: cryptography>=3.1 in /usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured) (43.0.3)
Collecting eval-type-backport>=0.2.0 (from unstructured-client->unstructured)
  Downloading eval_type_backport-0.2.2-py3-none-any.whl.metadata (2.2 kB)
Requirement already satisfied: httpx>=0.27.0 in /usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured) (0.28.1)
Requirement already satisfied: nest-asyncio>=1.6.0 in /usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured) (1.6.0)
Requirement already satisfied: pydantic>=2.11.2 in /usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured)

```



```

(2.11.3)
Collecting pypdf>=4.0 (from unstructured-client->unstructured)
  Downloading pypdf-5.4.0-py3-none-any.whl.metadata (7.3 kB)
Requirement already satisfied: requests-toolbelt>=1.0.0 in
/usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured)
(1.0.0)
Requirement already satisfied: typing-inspection>=0.4.0 in
/usr/local/lib/python3.11/dist-packages (from unstructured-client->unstructured)
(0.4.0)
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.11/dist-
packages (from cryptography>=3.1->unstructured-client->unstructured) (1.17.1)
Requirement already satisfied: anyio in /usr/local/lib/python3.11/dist-packages
(from httpx>=0.27.0->unstructured-client->unstructured) (4.9.0)
Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-
packages (from httpx>=0.27.0->unstructured-client->unstructured) (1.0.8)
Requirement already satisfied: h11<0.15,>=0.13 in
/usr/local/lib/python3.11/dist-packages (from
httpcore==1.*->httpx>=0.27.0->unstructured-client->unstructured) (0.14.0)
Requirement already satisfied: packaging>=17.0 in
/usr/local/lib/python3.11/dist-packages (from
marshmallow<4.0.0,>=3.18.0->dataclasses-json->unstructured) (24.2)
Requirement already satisfied: annotated-types>=0.6.0 in
/usr/local/lib/python3.11/dist-packages (from pydantic>=2.11.2->unstructured-
client->unstructured) (0.7.0)
Requirement already satisfied: pydantic-core==2.33.1 in
/usr/local/lib/python3.11/dist-packages (from pydantic>=2.11.2->unstructured-
client->unstructured) (2.33.1)
Collecting mypy-extensions>=0.3.0 (from typing-inspect<1,>=0.4.0->dataclasses-
json->unstructured)
  Downloading mypy_extensions-1.1.0-py3-none-any.whl.metadata (1.1 kB)
Requirement already satisfied: pycparser in /usr/local/lib/python3.11/dist-
packages (from cffi>=1.12->cryptography>=3.1->unstructured-client->unstructured)
(2.22)
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-
packages (from anyio->httpx>=0.27.0->unstructured-client->unstructured) (1.3.1)
Downloading unstructured-0.17.2-py3-none-any.whl (1.8 MB)
1.8/1.8 MB
59.3 MB/s eta 0:00:00
Downloading pdf2docx-0.5.8-py3-none-any.whl (132 kB)
132.0/132.0 kB
11.2 MB/s eta 0:00:00
Downloading
pymupdf-1.25.5-cp39-abi3-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (20.0
MB)
20.0/20.0 MB
54.6 MB/s eta 0:00:00
Downloading python_docx-1.1.2-py3-none-any.whl (244 kB)
244.3/244.3 kB

```

```

19.0 MB/s eta 0:00:00
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Downloading dataclasses_json-0.6.7-py3-none-any.whl (28 kB)
Downloading emoji-2.14.1-py3-none-any.whl (590 kB)
590.6/590.6 kB

39.4 MB/s eta 0:00:00
Downloading filetype-1.2.0-py2.py3-none-any.whl (19 kB)
Downloading python_iso639-2025.2.18-py3-none-any.whl (167 kB)
167.6/167.6 kB

15.6 MB/s eta 0:00:00
Downloading python_magic-0.4.27-py2.py3-none-any.whl (13 kB)
Downloading python_oxmsg-0.0.2-py3-none-any.whl (31 kB)
Downloading
rapidfuzz-3.13.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.1
MB)
3.1/3.1 MB

84.3 MB/s eta 0:00:00
Downloading unstructured_client-0.34.0-py3-none-any.whl (189 kB)
189.4/189.4 kB

16.0 MB/s eta 0:00:00
Downloading aiofiles-24.1.0-py3-none-any.whl (15 kB)
Downloading eval_type_backport-0.2.2-py3-none-any.whl (5.8 kB)
Downloading marshmallow-3.26.1-py3-none-any.whl (50 kB)
50.9/50.9 kB

4.4 MB/s eta 0:00:00
Downloading pypdf-5.4.0-py3-none-any.whl (302 kB)
302.3/302.3 kB

25.7 MB/s eta 0:00:00
Downloading typing_inspect-0.9.0-py3-none-any.whl (8.8 kB)
Downloading olefile-0.47-py2.py3-none-any.whl (114 kB)
114.6/114.6 kB

10.7 MB/s eta 0:00:00
Downloading mypy_extensions-1.1.0-py3-none-any.whl (5.0 kB)
Building wheels for collected packages: fire, langdetect
  Building wheel for fire (setup.py) ... done
  Created wheel for fire: filename=fire-0.7.0-py3-none-any.whl size=114249
sha256=3ef9e351e513a64c0132168b0cc7499034bffc924e673adec10de22998b5904b
  Stored in directory: /root/.cache/pip/wheels/46/54/24/1624fd5b8674eb1188623f7e
8e17cdf7c0f6c24b609dfb8a89
  Building wheel for langdetect (setup.py) ... done
  Created wheel for langdetect: filename=langdetect-1.0.9-py3-none-any.whl
size=993223
sha256=87fd95644ee97ec67b29a68dea570fdf73a2c78e75eafaff80d722e9fbc9effe
  Stored in directory: /root/.cache/pip/wheels/0a/f2/b2/e5ca405801e05eb7c8ed5b3b
4bcf1fcabcd6272c167640072e
Successfully built fire langdetect
Installing collected packages: filetype, rapidfuzz, python-magic, python-iso639,
python-docx, pypdf, PyMuPDF, olefile, mypy-extensions, marshmallow, langdetect,

```

```
fire, eval-type-backport, emoji, backoff, aiofiles, typing-inspect, python-oxmsg, pdf2docx, unstructured-client, dataclasses-json, unstructured
Successfully installed PyMuPDF-1.25.5 aiofiles-24.1.0 backoff-2.2.1 dataclasses-json-0.6.7 emoji-2.14.1 eval-type-backport-0.2.2 filetype-1.2.0 fire-0.7.0 langdetect-1.0.9 marshmallow-3.26.1 mypy-extensions-1.1.0 olefile-0.47 pdf2docx-0.5.8 pypdf-5.4.0 python-docx-1.1.2 python-iso639-2025.2.18 python-magic-0.4.27 python-oxmsg-0.0.2 rapidfuzz-3.13.0 typing-inspect-0.9.0 unstructured-0.17.2 unstructured-client-0.34.0
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.11/dist-packages (4.13.4)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.11/dist-packages (from beautifulsoup4) (2.6)
Requirement already satisfied: typing-extensions>=4.0.0 in /usr/local/lib/python3.11/dist-packages (from beautifulsoup4) (4.13.2)
```

```
[5]: import os
from langchain.document_loaders import TextLoader
from langchain.embeddings.openai import OpenAIEmbeddings
from langchain.vectorstores import FAISS
from langchain.chains import RetrievalQA
from langchain.llms import OpenAI
from google.colab import userdata # Para obtener la clave OpenIA
```

2. Registra una cuenta en OpenAILinks to an external site. (o usa un modelo local como llama-cpp o ollama si lo prefieres)

Se va a utilizar OpenAILinks

Se utilizó secretos de Colab para añadir la clave OpenIA y luego se accedera a ella mediante código

```
[6]: openai_api_key = userdata.get('OPENAI_API_KEY')

if openai_api_key:
    print("Cargar clave de OpenAI cargada en Colab.")
    os.environ["OPENAI_API_KEY"] = openai_api_key
else:
    print("Advertencia: La clave de OpenAI no se encontró cargada en Colab.")
```

Cargar clave de OpenAI cargada en Colab.

3 Parte 2: Construcción del sistema RAG

1. Carga de documentos

Usa un conjunto de documentos .txt, .html, .pdf sobre un tema específico (ej. artículos de Wikipedia, documentos científicos o manuales técnicos).

Puedes usar textos de dominio público de:

Project Gutenberg.

arXiv.

```
[16]: import os
      from langchain.document_loaders import WebBaseLoader

      # URLs
      urls = [
          # Wiki
          'https://simple.wikipedia.org/wiki/Solar_System',
          'https://en.wikipedia.org/wiki/Universe',
          'https://en.wikipedia.org/wiki/Planetary_system',
          'https://en.wikipedia.org/wiki/Star',
          'https://en.wikipedia.org/wiki/Planet',
          'https://en.wikipedia.org/wiki/Star_system',
          'https://en.wikipedia.org/wiki/Alpha_Centauri',
          'https://en.wikipedia.org/wiki/Sun',
          'https://en.wikipedia.org/wiki/Earth',
          'https://en.wikipedia.org/wiki/Moon',
          'https://en.wikipedia.org/wiki/Mercury_(planet)',
          'https://en.wikipedia.org/wiki/Venus',
          'https://en.wikipedia.org/wiki/Mars',
          'https://en.wikipedia.org/wiki/Jupiter',
          'https://en.wikipedia.org/wiki/Saturn',
          'https://en.wikipedia.org/wiki/Uranus',
          'https://en.wikipedia.org/wiki/Neptune',
          'https://en.wikipedia.org/wiki/Pluto',
          'https://en.wikipedia.org/wiki/Europa',
          'https://en.wikipedia.org/wiki/Ganymede',
          'https://en.wikipedia.org/wiki/Callisto',
          'https://en.wikipedia.org/wiki/Titan',
          'https://en.wikipedia.org/wiki/Mimas',
          'https://en.wikipedia.org/wiki/Enceladus',
          'https://en.wikipedia.org/wiki/Tethys',
          'https://en.wikipedia.org/wiki/Dione',
          'https://en.wikipedia.org/wiki/Rhea',
          'https://en.wikipedia.org/wiki/Hyperion',
          'https://en.wikipedia.org/wiki/Iapetus',
          'https://en.wikipedia.org/wiki/Miranda',
          'https://en.wikipedia.org/wiki/Ariel',
          'https://en.wikipedia.org/wiki/Umbriel',
          'https://en.wikipedia.org/wiki/Titania',
          'https://en.wikipedia.org/wiki/Oberon',
          'https://en.wikipedia.org/wiki/Triton',
          'https://en.wikipedia.org/wiki/Charon',
          'https://en.wikipedia.org/wiki/Phobos',
          'https://en.wikipedia.org/wiki/Deimos',
```

```

'https://en.wikipedia.org/wiki/Io',
'https://en.wikipedia.org/wiki/Europa_(moon)',
'https://en.wikipedia.org/wiki/Ganymede_(moon)',
'https://en.wikipedia.org/wiki/Callisto_(moon)',
'https://en.wikipedia.org/wiki/Mimas_(moon)',
'https://en.wikipedia.org/wiki/Enceladus',
'https://en.wikipedia.org/wiki/Tethys_(moon)',
'https://en.wikipedia.org/wiki/Dione_(moon)',
'https://en.wikipedia.org/wiki/Rhea_(moon)',
'https://en.wikipedia.org/wiki/Hyperion_(moon)',
'https://en.wikipedia.org/wiki/Iapetus_(moon)',
'https://en.wikipedia.org/wiki/Miranda_(moon)',
'https://en.wikipedia.org/wiki/Ariel_(moon)',
'https://en.wikipedia.org/wiki/Umbriel_(moon)',
'https://en.wikipedia.org/wiki/Titania_(moon)',
'https://en.wikipedia.org/wiki/Oberon_(moon)',
'https://en.wikipedia.org/wiki/Triton_(moon)',
'https://en.wikipedia.org/wiki/Charon_(moon)',
'https://en.wikipedia.org/wiki/Phobos_(moon)',
'https://en.wikipedia.org/wiki/Deimos_(moon)',
'https://en.wikipedia.org/wiki/Io_(moon)',
'https://en.wikipedia.org/wiki/Europa_(moon)',
'https://en.wikipedia.org/wiki/Ganymede_(moon)',
'https://en.wikipedia.org/wiki/Callisto_(moon)',
'https://en.wikipedia.org/wiki/Formation_and_evolution_of_the_Solar_System',
'https://en.wikipedia.org/wiki/Galaxy',
'https://en.wikipedia.org/wiki/Protoplanetary_disk',
'https://en.wikipedia.org/wiki/Stellar_evolution',
'https://en.wikipedia.org/wiki/Astronomy',
'https://en.wikipedia.org/wiki/History_of_astronomy',
'https://en.wikipedia.org/wiki/Solar_flare',
# Gutenberg (tratándolos como páginas web)
'https://www.gutenberg.org/ebooks/74571',
'https://www.gutenberg.org/ebooks/36343',
'https://www.gutenberg.org/ebooks/51284',
'https://www.gutenberg.org/ebooks/16044',
'https://www.gutenberg.org/ebooks/35937',
'https://www.gutenberg.org/ebooks/35744',
'https://www.gutenberg.org/ebooks/56302',
'https://www.gutenberg.org/ebooks/47021',
'https://www.gutenberg.org/ebooks/33337',
# Otras Fuentes
'https://openstax.org/books/astronomy/pages/1-introduction',
'https://espanol.libretexts.org/Fisica/Astronomia_y_Cosmologia/
↳Libro%3A_Astronomía_(OpenStax)/17%3A_Analizando_Starlight/17.
↳01%3A_El_brillo_de_las_estrellas',

```

```

]

loaders = [WebBaseLoader(url) for url in urls]
documentos = []
for loader in loaders:
    try:
        documentos.extend(loader.load())
    except Exception as e:
        print(f'Error al cargar documentos desde la web: {e}')

print(f'Se cargaron {len(documentos)} documentos desde la web.')

```

Se cargaron 80 documentos desde la web.

```

[8]: # Validar que se haya cargado los datos
if documentos:
    print('\nContenido del primer documento cargado:')
    print(documentos[0].page_content[:100].strip())

```

Contenido del primer documento cargado:

Solar System - Simple English Wikipedia, the free encyclopedia

Carga de archivos PDF que se encuentran en un repositorio de Google Drive

```

[12]: from google.colab import drive
drive.mount('/content/drive')

```

Mounted at /content/drive

```

[14]: from langchain.document_loaders import PyPDFLoader
import os

# Ruta a la carpeta donde están los PDFs
pdf_folder_path = '/content/drive/MyDrive/astronomia_pdfs'

# Cargar todos los archivos PDF de la carpeta
pdf_docs = []
for filename in os.listdir(pdf_folder_path):
    if filename.endswith(".pdf"):
        pdf_path = os.path.join(pdf_folder_path, filename)
        loader = PyPDFLoader(pdf_path)
        try:
            pdf_docs.extend(loader.load())
        except Exception as e:
            print(f"Error al cargar {filename}: {e}")

```

```
print(f'Se cargaron {len(pdf_docs)} documentos PDF en Google Drive.')
```

Se cargaron 796 documentos PDF en Google Drive.

Combinar documentos PDF

```
[17]: documentos.extend(pdf_docs)
print(f'Total de documentos combinados HTML y PDF: {len(documentos)}')
```

Total de documentos combinados HTML y PDF: 876

2. División en fragmentos

Usa CharacterTextSplitter para dividir los documentos en chunks de 500 caracteres.

```
[22]: from langchain.text_splitter import CharacterTextSplitter # Import
      ↪ CharacterTextSplitter

# Inicializar el splitter de texto
text_splitter = CharacterTextSplitter(chunk_size=400, chunk_overlap=50)

# Dividir los documentos en chunks
chunks = text_splitter.split_documents(documentos)

print(f'Se dividieron los documentos en {len(chunks)} chunks.')
```

```
if chunks:
    print('\nPrimer chunk:')
    print(chunks[0].page_content)
    print('\nMetadatos del primer chunk:')
    # Convierte los valores del diccionario a cadena antes de segmentar
    metadata_str = str(chunks[0].metadata) # Convertir el metadata a string
    cleaned_metadata = metadata_str[:50].strip().replace(" ", "").replace("\n",
    ↪ "").replace("\t", "")
    print(cleaned_metadata)
```

WARNING:langchain_text_splitters.base:Created a chunk of size 1969, which is longer than the specified 400

WARNING:langchain_text_splitters.base:Created a chunk of size 2456, which is longer than the specified 400

WARNING:langchain_text_splitters.base:Created a chunk of size 1501, which is longer than the specified 400

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longer than the specified 400
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longer than the specified 400
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longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1429, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2034, which is longer than the specified 400
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longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 495, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 409, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 406, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 640, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 424, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 442, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 558, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 445, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 542, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 499, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 447, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 432, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 401, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1453, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1147, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2979, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1427, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 402, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1171, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1930, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1638, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1733, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 607, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1258, which is

longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2654, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1318, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2871, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1526, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1132, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2983, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2024, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1779, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 698, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1779, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1660, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1154, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 800, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1748, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 442, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2930, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 457, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 855, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 911, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1233, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 595, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1901, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 4183, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 460, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 666, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1979, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2475, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1200, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1336, which is

longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 3766, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1600, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1820, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 3793, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1496, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1687, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1644, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1477, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2310, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 722, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 543, which is longer than the specified 400
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longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 420, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 407, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 547, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 630, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 417, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 554, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 652, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1692, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 981, which is

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WARNING:langchain_text_splitters.base:Created a chunk of size 3284, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 922, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 662, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 1236, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1042, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2554, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 733, which is

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WARNING:langchain_text_splitters.base:Created a chunk of size 767, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 480, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1209, which is longer than the specified 400
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WARNING:langchain_text_splitters.base:Created a chunk of size 483, which is

longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 789, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 506, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 832, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 473, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 811, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 433, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 626, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 508, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 813, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 10954, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 496, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 725, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1150, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 487, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 7659, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 4375, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 8344, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 1167, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 567, which is longer than the specified 400
WARNING:langchain_text_splitters.base:Created a chunk of size 2156, which is longer than the specified 400

Se dividieron los documentos en 8220 chunks.

Primer chunk:

Solar System - Simple English Wikipedia, the free encyclopedia

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Metadatos del primer chunk:

```
{'source': 'https://simple.wikipedia.org/wiki/Sola
```

3. Creación del índice semántico

Usa FAISS para construir un índice vectorial a partir de los chunks usando embeddings como OpenAIEmbeddings.

```
[23]: from langchain.vectorstores import FAISS
import time

# Inicializar el modelo de embeddings de OpenAI
embeddings = OpenAIEmbeddings()
```

```

# Configurar el procesamiento por lotes porque la cuenta tiene un limite 40,000
↳TPM
batch_size = 100 # Número de chunks a procesar por lote
seconds_to_sleep = 60 # Tiempo de espera entre lotes
vectorstore = None

for i in range(0, len(chunks), batch_size):
    batch = chunks[i:i + batch_size]
    if batch:
        try:
            if vectorstore is None:
                vectorstore = FAISS.from_documents(batch, embeddings)
            else:
                vectorstore.add_documents(batch)
            print(f"Procesado lote {i // batch_size + 1} de {len(chunks) //
↳batch_size + (1 if len(chunks) % batch_size > 0 else 0)}")
        except Exception as e:
            print(f"Error al procesar el lote {i // batch_size + 1}: {e}")
            print("Esperando antes de reintentar...")
            time.sleep(seconds_to_sleep * 2) # Esperar más tiempo en caso de
↳error

            continue # Reintentar el lote en la siguiente iteración

    time.sleep(seconds_to_sleep)

print('Se creó el índice vectorial FAISS procesando por lotes.')

```

```

Procesado lote 1 de 83
Procesado lote 2 de 83
Procesado lote 3 de 83
Procesado lote 4 de 83
Procesado lote 5 de 83
Procesado lote 6 de 83
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Procesado lote 16 de 83
Procesado lote 17 de 83
Procesado lote 18 de 83
Procesado lote 19 de 83
Procesado lote 20 de 83

```

Procesado lote 21 de 83
Procesado lote 22 de 83
Procesado lote 23 de 83
Procesado lote 24 de 83
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Procesado lote 27 de 83
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Procesado lote 41 de 83
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Procesado lote 72 de 83
Procesado lote 73 de 83
Procesado lote 74 de 83
Procesado lote 75 de 83
Error al procesar el lote 76: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 48382. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.'}, 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}
Esperando antes de reintentar...
Error al procesar el lote 77: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 68650. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.'}, 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}
Esperando antes de reintentar...
Error al procesar el lote 78: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 69380. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.'}, 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}
Esperando antes de reintentar...
Error al procesar el lote 79: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 58976. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.'}, 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}
Esperando antes de reintentar...
Error al procesar el lote 80: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 62154. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase

your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.' , 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}

Esperando antes de reintentar...

Error al procesar el lote 81: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 60964. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.' , 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}

Esperando antes de reintentar...

Error al procesar el lote 82: Error code: 429 - {'error': {'message': 'Request too large for text-embedding-ada-002 in organization org-Onhe5jxk7TG0c0gHip1vVv83 on tokens per min (TPM): Limit 40000, Requested 67566. The input or output tokens must be reduced in order to run successfully. Visit <https://platform.openai.com/account/rate-limits> to learn more. You can increase your rate limit by adding a payment method to your account at <https://platform.openai.com/account/billing>.' , 'type': 'tokens', 'param': None, 'code': 'rate_limit_exceeded'}}

Esperando antes de reintentar...

Procesado lote 83 de 83

Se creó el índice vectorial FAISS procesando por lotes.

4. Configuración del LLM

Usa OpenAIChat o ChatOpenAI si estás usando GPT-3.5 o (LLamaCpp o ollama) si estás trabajando localmente.

```
[24]: from langchain.chat_models import ChatOpenAI
      from langchain.chains import RetrievalQA

      # Inicializa el modelo de chat de OpenAI
      # Se utiliza el mismo modelo propuesto en clase ya que se necesita velocidad y
      # bajo costo, pero con cierta buena calidad de respuesta
      llm = ChatOpenAI(model_name="gpt-4o-mini", temperature=0.3)

      # Configura la cadena RetrievalQA
      qa = RetrievalQA.from_llm(llm=llm, retriever=vectorstore.as_retriever())
```

6. Evaluación del sistema

Formula al menos 5 preguntas que solo puedan responderse con los documentos cargados.

```
[25]: # Loop para permitir preguntas del usuario
      while True:
          pregunta = input("Haz una pregunta (o escribe 'salir' para terminar): ")
```

```
if pregunta.lower() in ["salir", "exit", "quit"]:
    print(";Hasta luego!")
    break
respuesta = qa.run(pregunta)
print(f"\n Respuesta: {respuesta}\n")
```

Haz una pregunta (o escribe 'salir' para terminar): hace cuantos años se formo el universo

Respuesta: El universo se formó hace aproximadamente 13.8 mil millones de años, según las estimaciones actuales de la cosmología.

Haz una pregunta (o escribe 'salir' para terminar): que es la cosmologia

Respuesta: La cosmología es el estudio del universo en su totalidad, incluyendo su origen, evolución, estructura y eventual destino. Se basa en principios de la física y la astronomía para entender cómo se formó el universo, cómo se distribuye la materia en él, y cómo se comportan los diferentes componentes del cosmos, como las galaxias y las estrellas. La cosmología moderna también incluye el estudio de fenómenos como la expansión del universo, la materia oscura y la energía oscura.

Haz una pregunta (o escribe 'salir' para terminar): cuantas galaxias se estima que hay en el universo

Respuesta: Se estima que hay al menos dos billones (2×10^{12}) de galaxias en el universo observable, según un estudio de 2016. Sin embargo, observaciones posteriores sugieren que aún se están perdiendo galaxias en las observaciones directas.

Haz una pregunta (o escribe 'salir' para terminar): Cual es la galaxia donde se encuentra el sistema solar

Respuesta: El sistema solar se encuentra en la galaxia conocida como la Vía Láctea.

Haz una pregunta (o escribe 'salir' para terminar): que galaxia es la mas cercana a la via lactea

Respuesta: La galaxia más cercana a la Vía Láctea es la Galaxia de Andrómeda.

Haz una pregunta (o escribe 'salir' para terminar): cual es el planeta mas parecida a la tierra para albergar vida

Respuesta: No sé.

Haz una pregunta (o escribe 'salir' para terminar): necesitas esos datos para poder responder

Respuesta: No sé a qué datos te refieres. ¿Podrías especificar tu pregunta?

Haz una pregunta (o escribe 'salir' para terminar): datos del planeta que se parece mas a la tierra

Respuesta: El planeta que se parece más a la Tierra es Venus. Tiene un tamaño y un radio muy cercanos al de la Tierra, con un radio de 6052 kilómetros. Sin embargo, a pesar de sus similitudes en tamaño, Venus tiene un clima muy hostil para la vida, con una densa atmósfera compuesta principalmente de dióxido de carbono y lluvias de ácido sulfúrico. Además, su día es más largo que su año, ya que tarda 583.92 días en rotar sobre su eje y 244.7 días en orbitar alrededor del Sol.

Haz una pregunta (o escribe 'salir' para terminar): venus es parecido pero no habitable, que otro planeta podria ser habitable como la tierra

Respuesta: No sé.

Haz una pregunta (o escribe 'salir' para terminar): porque pluton ya no se considera un planeta

Respuesta: Plutón ya no se considera un planeta debido a la redefinición de lo que constituye un planeta por parte de la Unión Astronómica Internacional (IAU) en 2006. Según esta nueva definición, un cuerpo celeste debe cumplir tres criterios para ser clasificado como un planeta: debe orbitar alrededor del Sol, debe tener suficiente masa para que su gravedad lo forme en una esfera, y debe haber limpiado su órbita de otros objetos. Plutón no cumple con el tercer criterio, ya que comparte su órbita con otros objetos en el cinturón de Kuiper, por lo que fue reclasificado como un "planeta enano".

Haz una pregunta (o escribe 'salir' para terminar): que es la iau

Respuesta: La IAU, o Unión Astronómica Internacional, es una organización que reúne a astrónomos de todo el mundo. Su principal objetivo es promover y coordinar la cooperación internacional en el campo de la astronomía, así como establecer normas y nomenclaturas en esta disciplina. La IAU es conocida por sus decisiones sobre la clasificación de cuerpos celestes, como la redefinición de lo que constituye un planeta en 2006.

Haz una pregunta (o escribe 'salir' para terminar): que libros recomendarias para empezar leer sobre astronomia o el espacio

Respuesta: No tengo información específica sobre libros recomendados para empezar a leer sobre astronomía o el espacio.

Haz una pregunta (o escribe 'salir' para terminar): referencias de lectura sobre astronomia

Respuesta: No tengo información específica sobre referencias de lectura sobre astronomía.

Haz una pregunta (o escribe 'salir' para terminar): de que esta compuesto químicamente el sol

Respuesta: El Sol está compuesto principalmente de hidrógeno y helio. Se estima que alrededor del 74% de su masa es hidrógeno, un 24% es helio y el 2% restante está formado por otros elementos más pesados.

Haz una pregunta (o escribe 'salir' para terminar): algun elemento pesado que podrias nombrar

Respuesta: Uno de los elementos pesados que se puede nombrar es el Hierro.

Haz una pregunta (o escribe 'salir' para terminar): en que cantidad se encuentra en la tierra

Respuesta: No sé a qué cantidad te refieres. ¿Podrías especificar más sobre qué cantidad estás preguntando?

Haz una pregunta (o escribe 'salir' para terminar): que cantidad de hierro se encuentra en la tierra

Respuesta: La masa de la Tierra está compuesta aproximadamente por un 32% de hierro en su totalidad. Sin embargo, en el núcleo de la Tierra, el hierro predomina en un 88%.

Haz una pregunta (o escribe 'salir' para terminar): a que se debe que la tierra sea habitable

Respuesta: La Tierra es habitable debido a varias condiciones físicas y químicas que permiten la existencia de vida. Algunas de estas condiciones incluyen:

1. ****Presencia de agua****: Dos tercios de la superficie de la Tierra están cubiertos por agua, un elemento esencial para la vida.
2. ****Atmósfera****: La atmósfera terrestre regula la temperatura, protege de la radiación solar dañina y mantiene el efecto invernadero, lo que permite que las temperaturas sean adecuadas para la vida.
3. ****Distancia al Sol****: La Tierra se encuentra a una distancia adecuada del Sol (150 millones de kilómetros o 1 Unidad Astronómica), lo que permite que reciba la cantidad justa de luz y calor.
4. ****Composición química****: La Tierra tiene una composición rica en elementos

necesarios para la vida, como carbono, oxígeno, nitrógeno y otros.

5. ****Campo magnético****: La Tierra tiene un campo magnético que protege a la atmósfera de la erosión causada por el viento solar.

Estas condiciones, entre otras, hacen que la Tierra sea el único planeta conocido que alberga vida.

Haz una pregunta (o escribe 'salir' para terminar): excelente respuesta

Respuesta: Gracias. Si tienes más preguntas o necesitas más información, no dudes en preguntar.

Haz una pregunta (o escribe 'salir' para terminar): que genera el campo magnetico en la tierra

Respuesta: El campo magnético de la Tierra se genera principalmente por el movimiento de convección del material del núcleo, que está compuesto principalmente de hierro y níquel. Este movimiento crea un efecto de dínamo que genera corrientes eléctricas, las cuales dan origen al campo magnético terrestre.

Haz una pregunta (o escribe 'salir' para terminar): a causa de que se pueden ver las auroras boreales

Respuesta: Las auroras boreales se pueden ver debido a la interacción del viento solar, que está compuesto por partículas cargadas eléctricamente, con el campo magnético terrestre. Cuando estas partículas viajan hacia los polos magnéticos de la Tierra, interactúan con las moléculas de la atmósfera, lo que genera las auroras. Los colores azulados, verdosos y rojizos de las auroras dependen de la composición de la atmósfera.

Haz una pregunta (o escribe 'salir' para terminar): Muy buena respuesta

Respuesta: Gracias. Si tienes más preguntas o necesitas más información, no dudes en preguntar.

Haz una pregunta (o escribe 'salir' para terminar): Gracias a ti

Respuesta: De nada. Si tienes más preguntas o necesitas ayuda con algo, no dudes en preguntar.

Haz una pregunta (o escribe 'salir' para terminar): salir
¡Hasta luego!

Evalúa la calidad y precisión de las respuestas

Se buscó que referencias cualitativas evaluar y se utilizó las detalladas más abajo para evaluar la calidad y precisión del modelo

Precisión fáctica: ¿La respuesta es correcta y se basa en información veraz?

Si se basa en la información proporcionada al modelo, solo contesto las preguntas sobre el que tiene acceso en el conjunto de documentos.

Relevancia: ¿La respuesta aborda la pregunta de manera apropiada?

En la mayoría de los casos si, de las 24 preguntas hechas 4 no comprendio, como la pregunta que iba relacionada al hierro y su cantidad presente en la tierra, se tuvo que ser más específico, pero posiblemente esto se debió al contenido limitado sobre el cual tuvo acceso.

Coherencia: ¿La respuesta tiene sentido internamente y las ideas están conectadas lógicamente?

Este punto se evidencio con la preguntas relacionadas que se hizo sobre ciertos puntos y lo asocio correctamente en base a lo que tenia disponible para consultar.

Fluidez: ¿El lenguaje de la respuesta es natural, gramaticalmente correcto y fácil de entender?

Totalmente, el lenguaje es claro y preciso.

Comprensibilidad: ¿Es fácil para el usuario entender la respuesta?

En esta prueba, solo el alumno que trabajo el modelo leyó las respuestas y las mismas eran totalmente entendibles.

Robustez: ¿El modelo mantiene la calidad de sus respuestas ante diferentes tipos de prompts o información adversaria?

Si mantuvo, solo en los casos que no tenia acceso a lo consultado, respondia con un no sé o pedía especificar mas datos para responder.

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