from google.colab import drive
drive.mount('\_/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

## !nvidia-smi

Tue Feb 18 15:00:30 2025

GPU Name         Persistence-M   Bus-Id         Disp.A   Volatile Uncorr. ECC           Fan Temp Perf         Pwr:Usage/Cap   Memory-Usage   GPU-Util Compute M.   MIG M.           0 Tesla T4         Off   0000000:00:04.0 Off   0           N/A 44C P8         9W / 70W   0MiB / 15360MiB   0% Default           N/A         N/A	NVIDIA-SMI	550.54.15		I	Driver '	Version:	550.5	4.15	CUDA Versio	on: 12.4
0 Tesla T4		Perf			:	Bus-Id			GPU-Util	Compute M. MIG M.
				9W /					j	0 Default
Processes: GPU GI CI PID Type Process name GPU Memory ID ID Usage	GPU GI ID	ID	PID	Туре	Proces	s name				,

 $! \verb|pip| install lange chain faiss-cpu transformers datasets openai tiktoken chromadb flask\\$ 

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Requirement already satisfied: langchain in /usr/local/lib/python3.11/dist-packages (0.3.18)
     Collecting faiss-cpu
       Downloading faiss_cpu-1.10.0-cp311-cp311-manylinux_2_28_x86_64.whl.metadata (4.4 kB)
     Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.48.3)
     Collecting datasets
       Downloading datasets-3.3.1-py3-none-any.whl.metadata (19 kB)
     Requirement already satisfied: openai in /usr/local/lib/python3.11/dist-packages (1.61.1)
     Collecting tiktoken
       Downloading tiktoken-0.9.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (6.7 kB)
     Collecting chromadb
       Downloading chromadb-0.6.3-py3-none-any.whl.metadata (6.8 kB)
     Requirement already satisfied: flask in /usr/local/lib/python3.11/dist-packages (3.1.0)
     Requirement already satisfied: langchain-core<1.0.0,>=0.3.34 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.35
     Requirement already satisfied: langchain-text-splitters<1.0.0,>=0.3.6 in /usr/local/lib/python3.11/dist-packages (from langchain
     Requirement already satisfied: langsmith<0.4,>=0.1.17 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.8)
     Requirement already satisfied: pydantic<3.0.0,>=2.7.4 in /usr/local/lib/python3.11/dist-packages (from langchain) (2.10.6)
     Requirement already satisfied: SQLAlchemy<3,>=1.4 in /usr/local/lib/python3.11/dist-packages (from langchain) (2.0.38)
     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: aiohttp<4.0.0,>=3.8.3 in /usr/local/lib/python3.11/dist-packages (from langchain) (3.11.12)
     Requirement already satisfied: tenacity!=8.4.0,<10,>=8.1.0 in /usr/local/lib/python3.11/dist-packages (from langchain) (9.0.0)
     Requirement already satisfied: numpy<2,>=1.26.4 in /usr/local/lib/python3.11/dist-packages (from langchain) (1.26.4)
     Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from faiss-cpu) (24.2)
     Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from transformers) (3.17.0)
     Requirement already satisfied: huggingface-hub<1.0,>=0.24.0 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.28
     Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.11/dist-packages (from transformers) (2024.11.6)
     Requirement already satisfied: tokenizers<0.22,>=0.21 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.21.0)
     Requirement already satisfied: safetensors>=0.4.1 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.5.2)
     Requirement \ already \ satisfied: \ tqdm>=4.27 \ in \ /usr/local/lib/python3.11/dist-packages \ (from \ transformers) \ (4.67.1)
     Requirement already satisfied: pyarrow>=15.0.0 in /usr/local/lib/python3.11/dist-packages (from datasets) (17.0.0)
     Collecting dill<0.3.9,>=0.3.0 (from datasets)
        Downloading dill-0.3.8-py3-none-any.whl.metadata (10 kB)
     Requirement already satisfied: pandas in /usr/local/lib/python3.11/dist-packages (from datasets) (2.2.2)
     Collecting xxhash (from datasets)
        Downloading xxhash-3.5.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (12 kB)
     Collecting multiprocess<0.70.17 (from datasets)
       Downloading multiprocess-0.70.16-py311-none-any.whl.metadata (7.2 kB)
     Requirement already satisfied: fsspec<=2024.12.0,>=2023.1.0 in /usr/local/lib/python3.11/dist-packages (from fsspec[http]<=2024.1
     Requirement already satisfied: anyio<5,>=3.5.0 in /usr/local/lib/python3.11/dist-packages (from openai) (3.7.1)
     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) (0.8.2)
     Requirement already satisfied: sniffio in /usr/local/lib/python3.11/dist-packages (from openai) (1.3.1)
     Requirement already satisfied: typing-extensions<5,>=4.11 in /usr/local/lib/python3.11/dist-packages (from openai) (4.12.2)
     Collecting build>=1.0.3 (from chromadb)
       Downloading build-1.2.2.post1-py3-none-any.whl.metadata (6.5 kB)
     Collecting chroma-hnswlib==0.7.6 (from chromadb)
       Downloading chroma_hnswlib-0.7.6-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (252 bytes)
     Collecting fastapi>=0.95.2 (from chromadb)
       Downloading fastapi-0.115.8-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-3.14.1-py2.py3-none-any.whl.metadata (2.9 kB)
     Collecting onnxruntime>=1.14.1 (from chromadb)
       Downloading onnxruntime-1.20.1-cp311-cp311-manylinux_2_27_x86_64.manylinux_2_28_x86_64.whl.metadata (4.5 kB)
     Requirement already satisfied: opentelemetry-api>=1.2.0 in /usr/local/lib/python3.11/dist-packages (from chromadb) (1.16.0)
     Collecting opentelemetry-exporter-otlp-proto-grpc>=1.2.0 (from chromadb)
       Downloading\ open telemetry\_exporter\_otlp\_proto\_grpc-1.30.0-py3-none-any.whl.metadata\ (2.4\ kB)
     Collecting opentelemetry-instrumentation-fastapi>=0.41b0 (from chromadb)
        Downloading opentelemetry_instrumentation_fastapi-0.51b0-py3-none-any.whl.metadata (2.2 kB)
     Requirement already satisfied: opentelemetry-sdk>=1.2.0 in /usr/local/lib/python3.11/dist-packages (from chromadb) (1.16.0)
     Collecting pypika>=0.48.9 (from chromadb)
       Downloading PyPika-0.48.9.tar.gz (67 kB)
                                                            67.3/67.3 kB 4.7 MB/s eta 0:00:00
        Installing build dependencies ... done
       Getting requirements to build wheel ... done
        Preparing metadata (pyproject.toml) ... done
     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/python3.11/dist-packages (from chromadb) (6.5.2)
     Requirement already satisfied: grpcio>=1.58.0 in /usr/local/lib/python3.11/dist-packages (from chromadb) (1.70.0)
     Collecting bcrypt>=4.0.1 (from chromadb)
        Downloading bcrypt-4.2.1-cp39-abi3-manylinux_2_28_x86_64.whl.metadata (9.8 kB)
     Requirement already satisfied: typer>=0.9.0 in /usr/local/lib/python3.11/dist-packages (from chromadb) (0.15.1)
     Collecting kubernetes>=28.1.0 (from chromadb)
       Downloading kubernetes-32.0.0-py2.py3-none-any.whl.metadata (1.5 kB)
     Collecting mmh3>=4.0.1 (from chromadb)
       Requirement already satisfied: orjson>=3.9.12 in /usr/local/lib/python3.11/dist-packages (from chromadb) (3.10.15)
     Requirement already satisfied: rich>=10.11.0 in /usr/local/lib/python3.11/dist-packages (from chromadb) (13.9.4)
     Requirement already satisfied: Werkzeug>=3.1 in /usr/local/lib/python3.11/dist-packages (from flask) (3.1.3)
     Requirement already satisfied: Jinja2>=3.1.2 in /usr/local/lib/python3.11/dist-packages (from flask) (3.1.5)
     Requirement already satisfied: itsdangerous>=2.2 in /usr/local/lib/python3.11/dist-packages (from flask) (2.2.0)
     Requirement already satisfied: click>=8.1.3 in /usr/local/lib/python3.11/dist-packages (from flask) (8.1.8)
     Requirement already satisfied: blinker>=1.9 in /usr/local/lib/python3.11/dist-packages (from flask) (1.9.0)
     Requirement already satisfied: aiohappyeyeballs>=2.3.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->lackages (from aioh
     Requirement already satisfied: aiosignal>=1.1.2 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchair
     Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain)
     Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langcha:
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Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langel
Requirement already satisfied: propcache>=0.2.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp<4.0.0,>=3.8.3->langchain
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Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5,>=3.5.0->openai) (3.10)
Collecting pyproject_hooks (from build>=1.0.3->chromadb)
    Downloading pyproject_hooks-1.2.0-py3-none-any.whl.metadata (1.3 kB)
Collecting starlette<0.46.0,>=0.40.0 (from fastapi>=0.95.2->chromadb)
    Downloading starlette-0.45.3-py3-none-any.whl.metadata (6.3 kB)
Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx<1,>=0.23.0->openai) (2025.1.31)
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Requirement already satisfied: python-dateutil>=2.5.3 in /usr/local/lib/python3.11/dist-packages (from kubernetes>=28.1.0->chromatic from kubernetes>=28.1.0
Requirement already satisfied: google-auth>=1.0.1 in /usr/local/lib/python3.11/dist-packages (from kubernetes>=28.1.0->chromadb)
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Requirement already satisfied: requests-oauthlib in /usr/local/lib/python3.11/dist-packages (from kubernetes>=28.1.0->chromadb)
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Requirement already satisfied: urllib3>=1.24.2 in /usr/local/lib/python3.11/dist-packages (from kubernetes>=28.1.0->chromadb) (2
Collecting durationpy>=0.7 (from kubernetes>=28.1.0->chromadb)
    Downloading durationpy-0.9-py3-none-any.whl.metadata (338 bytes)
Requirement already satisfied: jsonpatch<2.0,>=1.33 in /usr/local/lib/python3.11/dist-packages (from langchain-core<1.0.0,>=0.3.3 Requirement already satisfied: requests-toolbelt<2.0.0,>=1.0.0 in /usr/local/lib/python3.11/dist-packages (from langsmith<0.4,>=0.3.3 Requirement already satisfied: requests-toolbelt<2.0.0,>=1.0.0 Requirement already satisfied: requests-toolbelt<2.0.0,>=0.3.3 Requirement already satisfied: requests-t
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Collecting coloredlogs (from onnxruntime>=1.14.1->chromadb)
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Requirement already satisfied: flatbuffers in /usr/local/lib/python3.11/dist-packages (from onnxruntime>=1.14.1->chromadb) (25.2
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Requirement already satisfied: sympy in /usr/local/lib/python3.11/dist-packages (from onnxruntime>=1.14.1->chromadb) (1.13.1)
Requirement already satisfied: deprecated>=1.2.6 in /usr/local/lib/python3.11/dist-packages (from opentelemetry-api>=1.2.0->chror
Requirement already satisfied: setuptools>=16.0 in /usr/local/lib/python3.11/dist-packages (from opentelemetry-api>=1.2.0->chromatical control of the contro
Requirement already satisfied: googleapis-common-protos~=1.52 in /usr/local/lib/python3.11/dist-packages (from opentelemetry-expo
Collecting opentelemetry-exporter-otlp-proto-common==1.30.0 (from opentelemetry-exporter-otlp-proto-grpc>=1.2.0->chromadb)
    Downloading opentelemetry_exporter_otlp_proto_common-1.30.0-py3-none-any.whl.metadata (1.9 kB)
Collecting opentelemetry-proto==1.30.0 (from opentelemetry-exporter-otlp-proto-grpc>=1.2.0->chromadb)
    Downloading opentelemetry_proto-1.30.0-py3-none-any.whl.metadata (2.4 kB)
Collecting opentelemetry-sdk>=1.2.0 (from chromadb)
    Downloading opentelemetry_sdk-1.30.0-py3-none-any.whl.metadata (1.6 kB)
Collecting protobuf (from onnxruntime>=1.14.1->chromadb)
    Downloading protobuf-5.29.3-cp38-abi3-manylinux2014_x86_64.whl.metadata (592 bytes)
\texttt{Collecting open telemetry-instrumentation-asgi==0.51b0 (from open telemetry-instrumentation-fastapi)=0.41b0-> chromadb)}
    Downloading opentelemetry_instrumentation_asgi-0.51b0-py3-none-any.whl.metadata (2.1 kB)
Collecting opentelemetry-instrumentation==0.51b0 (from opentelemetry-instrumentation-fastapi>=0.41b0->chromadb)
    Downloading opentelemetry_instrumentation-0.51b0-py3-none-any.whl.metadata (6.3 kB)
Collecting opentelemetry-semantic-conventions==0.51b0 (from opentelemetry-instrumentation-fastapi>=0.41b0->chromadb)
    Downloading opentelemetry_semantic_conventions-0.51b0-py3-none-any.whl.metadata (2.5 kB)
{\tt Collecting open telemetry-util-http==0.51b0 (from open telemetry-instrumentation-fastapi>=0.41b0->chromadb)}
    Downloading opentelemetry_util_http-0.51b0-py3-none-any.whl.metadata (2.6 kB)
Requirement already satisfied: wrapt<2.0.0,>=1.0.0 in /usr/local/lib/python3.11/dist-packages (from opentelemetry-instrumentation
Collecting asgiref~=3.0 (from opentelemetry-instrumentation-asgi==0.51b0->opentelemetry-instrumentation-fastapi>=0.41b0->chromadl
    Downloading asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting opentelemetry-api>=1.2.0 (from chromadb)
    Downloading opentelemetry_api-1.30.0-py3-none-any.whl.metadata (1.6 kB)
Collecting importlib-metadata<=8.5.0,>=6.0 (from opentelemetry-api>=1.2.0->chromadb)
    Downloading importlib_metadata-8.5.0-py3-none-any.whl.metadata (4.8 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)
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Collecting httptools>=0.6.3 (from uvicorn[standard]>=0.18.3->chromadb)
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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-0.21.0-cp311-cp311-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-1.0.4-cp311-cp311-manylinux 2 17 x86 64.manylinux2014 x86 64.whl.metadata (4.9 kB)
Requirement already satisfied: websockets>=10.4 in /usr/local/lib/python3.11/dist-packages (from uvicorn[standard]>=0.18.3->chror
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas->datasets) (2025.1)
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Requirement already satisfied: jsonpointer>=1.9 in /usr/local/lib/python3.11/dist-packages (from jsonpatch<2.0,>=1.33->langchain
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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=53771 sha256=0a8bf814d19e9c7703010b0f27b2822725417a9
   Stored in directory: /root/.cache/pip/wheels/a3/01/bd/4c40ceb9d5354160cb186dcc153360f4ab7eb23e2b24daf96d
Successfully built pypika
Installing collected packages: pypika, monotonic, durationpy, xxhash, uvloop, uvicorn, python-doteny, pyproject hooks, protobuf,
   Attempting uninstall: protobuf
     Found existing installation: protobuf 4.25.6
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   Attempting uninstall: importlib-metadata
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