!pip install gradio langchain langchain\_community langchain\_milvus transformers pymilvus

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Requirement already satisfied: gradio in /usr/local/lib/python3.11/dist-packages (5.41.0)
Requirement already satisfied: langchain in /usr/local/lib/python3.11/dist-packages (0.3.27)
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        Collecting langchain_milvus
           Downloading langchain_milvus-0.2.1-py3-none-any.whl.metadata (3.8 kB)
        Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.55.0)
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        Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from gradio) (25.0)
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        Requirement already satisfied: pillow<12.0,>=8.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (11.3.0)
        Requirement already satisfied: pydantic<2.12,>=2.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (2.11.7)
        Requirement already satisfied: pydub in /usr/local/lib/python3.11/dist-packages (from gradio) (0.25.1)
        Requirement already satisfied: python-multipart>=0.0.18 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.0.20)
       Requirement already satisfied: pyyaml<7.0, >=5.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (6.0.2)
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        Requirement already satisfied: websockets<16.0,>=10.0 in /usr/local/lib/python3.11/dist-packages (from gradio-client==1.11.0->grad
        Requirement already satisfied: langchain-core<1.0.0,>=0.3.72 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.3.72)
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       Requirement already satisfied: langsmith>=0.1.17 in /usr/local/lib/python3.11/dist-packages (from langchain) (0.4.12)
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```

## !pip install replicate

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    Requirement already satisfied: httpx<1,>=0.21.0 in /usr/local/lib/python3.11/dist-packages (from replicate) (0.28.1)
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    Requirement already satisfied: typing-inspection>=0.4.0 in /usr/local/lib/python3.11/dist-packages (from pydantic>1.10.7->replicate
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    Downloading replicate-1.0.7-py3-none-any.whl (48 kB)
                                                48.6/48.6 kB 3.1 MB/s eta 0:00:00
    Installing collected packages: replicate
    Successfully installed replicate-1.0.7
```

!pip install sentence-transformers

```
Requirement already satisfied: sentence-transformers in /usr/local/lib/python3.11/dist-packages (5.0.0)
    Requirement already satisfied: transformers<5.0.0,>=4.41.0 in /usr/local/lib/python3.11/dist-packages (from sentence-transformers)
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    Collecting nvidia-cuda-nvrtc-cu12==12.4.127 (from torch>=1.11.0->sentence-transformers)
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    Collecting nvidia-cuda-runtime-cu12==12.4.127 (from torch>=1.11.0->sentence-transformers)
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    Collecting nvidia-cublas-cu12==12.4.5.8 (from torch>=1.11.0->sentence-transformers)
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    Collecting nvidia-cufft-cu12==11.2.1.3 (from torch>=1.11.0->sentence-transformers)
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```

```
import os
import gradio as gr
import tempfile
from langchain_milvus import Milvus
from langchain_community.llms import Replicate
from langchain_community.document_loaders import TextLoader
from \ langehain.text\_splitter \ import \ CharacterTextSplitter
from transformers import AutoTokenizer
from langchain.prompts import PromptTemplate
from langchain.chains import RetrievalQA, LLMChain
from langchain.chains.combine_documents.stuff import StuffDocumentsChain
from \ langehain\_community.embeddings \ import \ HuggingFaceEmbeddings
# Replicate token and model setup
os.environ['REPLICATE_API_TOKEN'] = "r8_8tL6tvVeExvQw38NjQaYK5oJsJmOYaX1AVAYb"
model_path = "ibm-granite/granite-3.3-8b-instruct'
tokenizer = AutoTokenizer.from_pretrained(model_path)
model = Replicate(model=model_path, replicate_api_token=os.environ['REPLICATE_API_TOKEN'])
# No Temporary Milvus DB
db_file = tempfile.NamedTemporaryFile(prefix="milvus_", suffix=".db", delete=False).name
embeddings = HuggingFaceEmbeddings(model_name="all-MiniLM-L6-v2")
vector_db = Milvus(
    {\tt embedding\_function=embeddings},
    connection_args={"uri": db_file},
    auto id=True.
    index_params={"index_type": "AUTOINDEX"},
```

```
# 📄 Financial Literacy Content
filename = "finance_literacy.txt"
with open(filename, "w") as f:
   f.write(""
UPI: Unified Payments Interface (UPI) is a real-time payment system developed by NPCI. It allows users to link bank accounts and make in
Avoiding Online Scams: Never share your OTP, UPI PIN, or passwords. Beware of links promising free rewards. Use official banking apps or
Interest Rates: Interest is the cost of borrowing money. Loans usually have an interest rate. Compare rates from different banks before
Budgeting: Create a monthly budget by listing your income and expenses. Prioritize needs over wants. Track your spending to save money.
Digital Wallets: Apps like PhonePe, Google Pay, Paytm allow you to pay bills, recharge, and send money securely.
Safe Loan Practices: Always read terms before taking a loan. Choose loans with lower interest and no hidden fees.
How to use BHIM app: Download, register with your mobile number linked to your bank, set UPI PIN, and start sending or requesting money.
Fraud Protection: Use two-factor authentication. Don't save card details on unknown websites. Report suspicious activity to your bank in
# Load & Split Content
loader = TextLoader(filename)
documents = loader.load()
splitter = CharacterTextSplitter.from_huggingface_tokenizer(
   tokenizer=tokenizer,
    chunk_size=tokenizer.model_max_length // 2,
   chunk_overlap=0,
texts = splitter.split_documents(documents)
for i, doc in enumerate(texts):
   doc.metadata["doc_id"] = i + 1
vector_db.add_documents(texts)
# Financial Literacy Prompt
template = """
You are a helpful Digital Financial Literacy Assistant.
User Question: {question}
Give a simple, culturally-inclusive explanation in easy language.
Include tips to stay safe, explain tools like UPI, wallets, loans, interest, scams, budgeting.
prompt = PromptTemplate(template=template, input_variables=["question"])
# Chains
llm_chain = LLMChain(llm=model, prompt=prompt)
combine chain = StuffDocumentsChain(llm chain=llm chain)
rag_chain = RetrievalQA(
   retriever=vector db.as retriever(),
    combine_documents_chain=combine_chain,
   return_source_documents=False
)
# Gradio Interface
def ask_finance_agent(query):
   try:
        response = rag_chain.run(query)
        return response
    except Exception as e:
        return f" X Error: {str(e)}"
iface = gr.Interface(
    fn=ask_finance_agent,
    inputs=gr.Textbox(label="Ask a question about digital finance", placeholder="e.g. How to use UPI?"),
    outputs=gr.Textbox(label="Answer"),
    title="AI Agent for Digital Financial Literacy",
   description="Ask about UPI, loans, scams, budgeting, and digital tools. This assistant helps you stay safe and informed.",
    theme="default"
)
iface.launch(share=True)
```

Al Agent for Digital Financial Literacy ipynb - Colab /wsr/local/lib/python3.11/dist-packages/huggingface\_hub/utils/\_auth.py:94: UserWarning: The secret `HF\_TOKEN` does not exist in your Colab secrets. To authenticate with the Hugging Face Hub, create a token in your settings tab (<a href="https://huggingface.co/settings/tokens">https://huggingface.co/settings/tokens</a>), set it as : You will be able to reuse this secret in all of your notebooks. Please note that authentication is recommended but still optional to access public models or datasets. warnings.warn( tokenizer\_config.json: 9.93k/? [00:00<00:00, 464kB/s] vocab.ison: 777k/? [00:00<00:00, 10.8MB/s] merges txt: 442k/? [00:00<00:00, 14.8MB/s] tokenizer.json: 3.48M/? [00:00<00:00, 42.7MB/s] added tokens.json: 100% 207/207 [00:00<00:00. 5.25kB/s] special tokens map ison: 100% 801/801 [00:00<00:00, 52.1kB/s] /tmp/ipython-input-3364776045.py:22: LangChainDeprecationWarning: The class `HuggingFaceEmbeddings` was deprecated in LangChain 0.2 embeddings = HuggingFaceEmbeddings(model\_name="all-MiniLM-L6-v2") modules.json: 100% 349/349 [00:00<00:00, 22.8kB/s] config\_sentence\_transformers.json: 100% 116/116 [00:00<00:00, 11.9kB/s] 10.5k/? [00:00<00:00, 1.05MB/s] README.md: sentence bert config.json: 100% 53.0/53.0 [00:00<00:00, 4.61kB/s] config.json: 100% 612/612 [00:00<00:00, 69.0kB/s] model.safetensors: 100% 90.9M/90.9M [00:01<00:00, 103MB/s] 350/350 [00:00<00:00, 28.0kB/s] tokenizer\_config.json: 100% vocab.txt: 232k/? [00:00<00:00, 10.8MB/s] 466k/? [00:00<00:00, 17.5MB/s] tokenizer.json: 112/112 [00:00<00:00, 8.41kB/s] special\_tokens\_map.json: 100% 190/190 [00:00<00:00, 10.5kB/s] config.ison: 100% /tmp/ipython-input-3364776045.py:75: LangChainDeprecationWarning: The class `LLMChain` was deprecated in LangChain 0.1.17 and will t llm\_chain = LLMChain(llm=model, prompt=prompt) /tmp/ipython-input-3364776045.py:76: LangChainDeprecationWarning: This class is deprecated. Use the `create\_stuff\_documents\_chain` ( combine\_chain = StuffDocumentsChain(llm\_chain=llm\_chain) tmp/ipython-input-3364776045.py:78: LangChainDeprecationWarning: This class is deprecated. Use the `create\_retrieval\_chain` constru rag chain = RetrievalQA(

This share link expires in 1 week. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal in the working

## AI Agent for Digital Financial Literacy

Ask about UPI, loans, scams, budgeting, and digital tools. This assistant helps you stay safe and informed.

Colab notebook detected. To show errors in colab notebook, set debug=True in launch()

\* Running on public URL: <a href="https://0b7a4cf1d2861fadb2.gradio.live">https://0b7a4cf1d2861fadb2.gradio.live</a>

Ask a question about digital finance		Answer		
e.g. How to use UPI?				
Clear	Submit		Flag	