

NEW PRIMITIVES: CHALLENGE SOLVED

- WHEN THE USER CAN CHAT REGARDING DIFFERENT TOPICS, THE LLM HAS
 TO BE PROMPTED DIFFERENT. MULTI-PROMPT SOLVES THIS CHALLENGE
- USER MIGHT REQUIRE DATA THAT IS IN DIFFERENT VECTOR STORES.

 LLMS NEED TO QUERY ACCORDINGLY. MULTI-RETRIEVAL WORKS HERE

USE CASES OF MULTI-PROMPT:

- DIFFERENT BOT FOR
 DIFFERENT USERS
- CONDITIONAL PROMPTING
- PROVIDING USERS NEW
 CHOICES

USE CASES OF MULTI-RETRIVER:

- SAME CHAT BOT SERVING
 DIFFERENT TEAMS/ DOMAIN
- KEEPING INFORMATION SECURE
- ADDING DIFFERENT TYPES OF RETRIEVERS

HTTPS://GITHUB.COM/INSIGHTBUILDER

IMPLEMENTING MULTI-PROMPT

FROM LANGCHAIN.CHAINS.ROUTER IMPORT MULTIPROMPTCHAIN FROM LANGCHAIN.LLMS IMPORT OPENAI

SPARK_TEMPLATE = """YOU ARE A VERY BIG DATA ENGINEER. \YOU ARE GREAT AT ANSWERING QUESTIONS ABOUT DATA ENGINEERING IN A CONCISE AND EASY TO UNDERSTAND MANNER. \WHEN YOU DON'T KNOW THE ANSWER TO A QUESTION YOU ADMIT THAT YOU DON'T KNOW.HERE IS A QUESTION:{INPUT}""

MACHINELEARN_TEMPLATE = """YOU ARE EXPERT MACHINE LEARNING DEVELOPER. YOU ARE GREAT AT ANSWERING MACHINE LEARNING QUESTIONS. \YOU ARE CAN BREAK DOWN HARD PROBLEMS INTO THEIR COMPONENT PARTS, \ANSWER THE COMPONENT PARTS, AND THEN PUT THEM TOGETHER TO ANSWER THE BROADER QUESTION.HERE IS A QUESTION:{INPUT}""

```
PROMPT_INFOS = [{"NAME": "SPARK", "DESCRIPTION": "GOOD FOR ANSWERING QUESTIONS ABOUT

SPARK", "PROMPT_TEMPLATE": SPARK_TEMPLATE},

{"NAME": "MACHINELEARN", "DESCRIPTION": "GOOD FOR ANSWERING MACHINE LEARNING QUESTIONS", "PROMPT_TEMPLATE":

MACHINELEARN_TEMPLATE}]
```

CHAIN = MULTIPROMPTCHAIN.FROM_PROMPTS(OPENAI(), PROMPT_INFOS, VERBOSE=TRUE)
PRINT(CHAIN.RUN("HOW TO CREATE SCHEMA FOR SPARK TABLE?"))

HTTPS://GITHUB.COM/INSIGHTBUILDER

IMPLEMENTING MULTI-RETRIEVER

```
FROM LANGCHAIN.LLMS IMPORT OPENAI
FROM LANGCHAIN.CHAINS.ROUTER IMPORT MULTIRETRIEVALQACHAIN
APP1_RETRIEVER = FAISS.FROM_DOCUMENTS(APP1_DOCS, OPENAIEMBEDDINGS()).AS_RETRIEVER()
APP2_RETRIEVER = FAISS.FROM_DOCUMENTS(APP2_DOCS, OPENAIEMBEDDINGS()).AS_RETRIEVER()
APP3_RETRIEVER = FAISS.FROM_TEXTS(APP3_DOCS, OPENAIEMBEDDINGS()).AS_RETRIEVER()
RETRIEVER INFOS = [{
"NAME": "APP_1", "DESCRIPTION": "USED FOR ANSWERING QUESTION ABOUT APP 1", "RETRIEVER": APP1_RETRIEVER},
{"NAME": "APP_2", "DESCRIPTION": "GOOD FOR ANSWER QUESITONS ABOUT APP 2", "RETRIEVER": APP2_RETRIEVER},
{"NAME": "APP_3", "DESCRIPTION": "GOOD FOR ANSWERING QUESTIONS ABOUT APP 3", "RETRIEVER": APP3_RETRIEVER}]
CHAIN = MULTIRETRIEVALQACHAIN.FROM_RETRIEVERS(OPENAI(), RETRIEVER_INFOS, VERBOSE=TRUE)
PRINT(CHAIN.RUN("WHEN WAS APP 1 RELEASED TO THE MARKET?")
```

HTTPS://GITHUB.COM/INSIGHTBUILDER

THANKS FOR WATCHING REMEMBER TO PRACTICE WITH EXAMPLES

