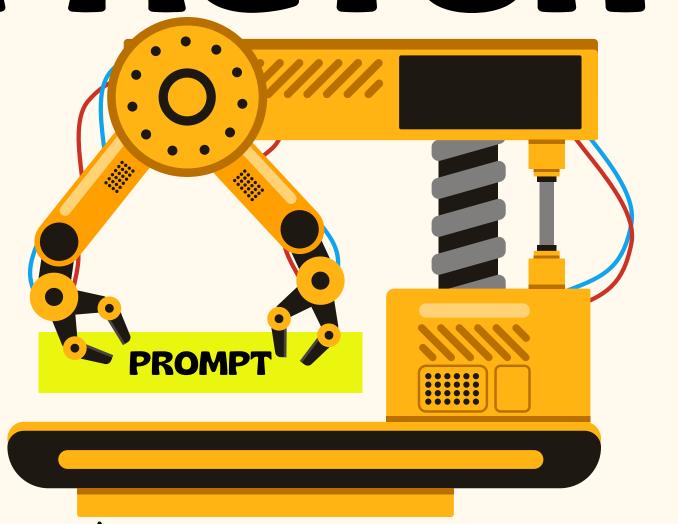
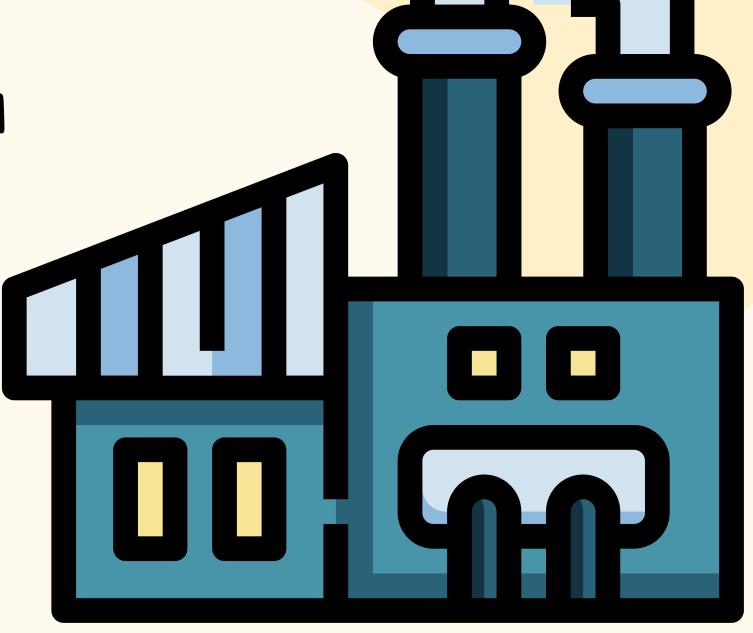
LANGCHAIN THE PROMPT FACTORY

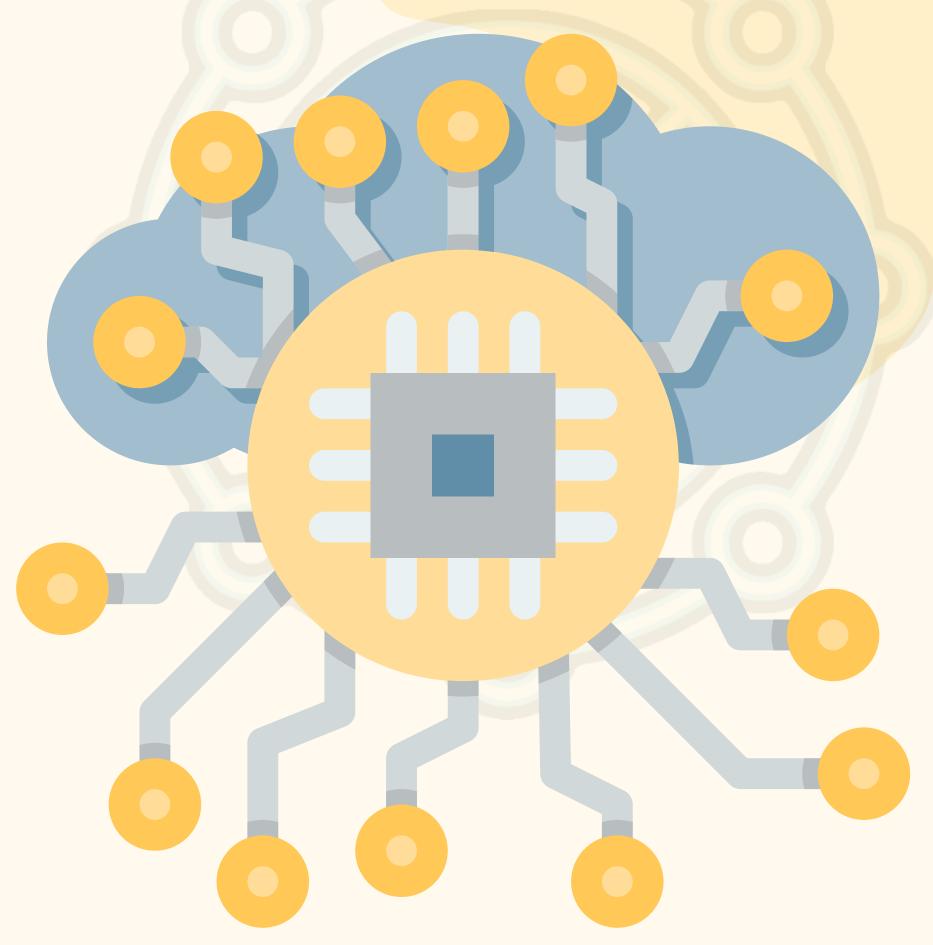




MASS PRODUCE PROMPTS

ITS BIGGER THAN PROMPTS

LANGCHAIN PYTHON
LIBRARY CONNECTS THE
OUR WORLD WITH LLM
WORLD.



HOW LANGCHAIN WORKS

LANGCHAIN PROVIDES THE PYTHON CLASSES AND FUNCTIONS

THAT INTERACT WITH

1. LANGUAGE MODELS FROM 28 PROVIDERS OR MORE

2.CONNECTS WITH SEARCH + WIKI + WOLFRAM + INTERNET

3. CREATES INTERFACE TO QUERY THE TEXT / FILE DATA

4.CONNECTS WITH VECTOR DATABASES TO STORE

5.CONNECTS WITH PYTHON + BASH + SQL ENVIRONMENT

PROMPTS
UTILITES

CHAINS

AGENTS

CREATING CHAINS ON WHICH THE LLM WILL QUERY & REPLY

IT STARTS WITH PROMPT

INSTALL LANGCHAIN

PIP INSTALL LANGCHAIN[ALL]

DATA LOADERS

& PARSERS

CACHING THE

MODEL

PROMPT WITH

OUTPUT PARSERS

PROMPT TEMPLATE

MANUAL PROMPT

AGENTS

UTLITIES

/ TOOLS

LANGUAGE

MODELS

CHAINS

IT STARTS WITH LLM

PROMPTS

Custom Prompt Template: How to create and use a custom PromptTemplate Custom Example Selector: How to create and use a custom ExampleSelector Few Shot Prompt Templates: How to include examples in the prompt. Example Selectors: How to use different types of example selectors. Prompt Serialization, Few Shot Prompt Examples, Output parsers Template:

LLMS

OpenAl, Cohere, Al21, Huggingface Hub, Azure OpenAl, Manifest, Goose Al, Writer, Banana, Modal., StochasticAl, Cerebrium, Petals, Forefront Al, PromptLayer, Anthropic, DeepInfra, Self-Hosted Models (via Runhouse)

PRIMITIVES AND CHAINS

DOCUMENT LOADER

28 different document loaders that cover Files, Directories, PDFs, Web Base, iFixit, cloud drives, APIs, Emails, Word Documents, AWS and GCP Directories, Youtube, and MS Word and Powerpoint

UTILS

Python REPL Bash

Requests Wrapper Google Search

SerpAPI Searx Search

VECTOR STORES

Chroma

AtlasDB

DeepLake

FAISS

Elastic Search

Milvus

Pinecone

Qdrant

Weaviate

There are LLMChain, SequentialChain & Transformation Chain classes too

UTILS

Text Splitters

VectorStores

Embeddings

HyDE: Hypothetical

Document Embeddings,

CHAINS

load_summarize

load_qa

ChatVectorDB

load_qa_with_sources

GraphQA Chain

Mapreduce & Re - Rank

Refine

UTILITY CHAINS: GAME CHANGER

LMMATH

LINKS USED: PYTHON REPL, LLMCHAIN

PAL

LINKS USED: PYTHON REPL, LLMCHAIN

SQLDATABASE CHAIN

LINKS USED: SQLDATABASE, LLMCHAIN

API CHAIN

LINKS USED: LLMCHAIN, REQUESTS

LLMBASH CHAIN

LINKS USED: BASHPROCESS, LLMCHAIN

LLMCHECKER CHAIN

LINKS USED: LLMCHAIN

LLMREQUESTS CHAIN

LINKS USED: REQUESTS, LLMCHAIN

MODERATION CHAIN

LINKS USED: LLMCHAIN, MODERATIONCHAIN

AGENTS: DECISION MAKERS

AGENTS

MRKL&MRKLCHAT

TOOLS USED: SEARCH, SQLDATABASECHAIN,

LLMMATHCHAIN

AGENT USED: ZERO-SHOT-REACT-DESCRIPTION

SELF-ASK-WITH-SEARCH

TOOLS USED: SEARCH

AGENT USED: SELF-ASK-WITH-SEARCH

REACT

TOOLS USED: WIKIPEDIA DOCSTORE

AGENT USED: REACT-DOCSTORE

HTTPS://GITHUB.COM/INSIGHTBUILDER

AGENT TOOLKITS

- SQLDATABASE AGENT: SQL DB
- JSON AGENT: JSON
- OPENAPI AGENT: OPENAPI ENDPOINT
- VECTORSTORE AGENT: VECTORSTORES
- PYTHON AGENT: EXECUTE PYTHON CODE
- PANDAS DATAFRAME AGENT: QA WITH PANDAS
- CSV AGENT: CSV FILE.

LLM: WITH MEMORY

BUFFER: JUST KEEPS PREVIOUS MESSAGES IN A BUFFER.

BUFFER WINDOW: KEEPS PREVIOUS MESSAGES IN A BUFFER BUT ONLY USES

THE PREVIOUS K OF THEM.

SUMMARY: A TYPE OF MEMORY THAT SUMMARIZES PREVIOUS MESSAGES.

SUMMARY BUFFER: KEEPS A BUFFER OF MESSAGES UP TO A POINT, AND

THEN SUMMARIZES THEM.

ENTITY MEMORY: A TYPE OF MEMORY THAT ORGANIZES INFORMATION BY

ENTITY.

KNOWLEDGE GRAPH MEMORY: A TYPE OF MEMORY THAT EXTRACTS

KNOWLEDGE GRAPH



THANKS FOR WATCHING

PRACTICE

PRACTICE





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PRACTICE

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PRACTICE