

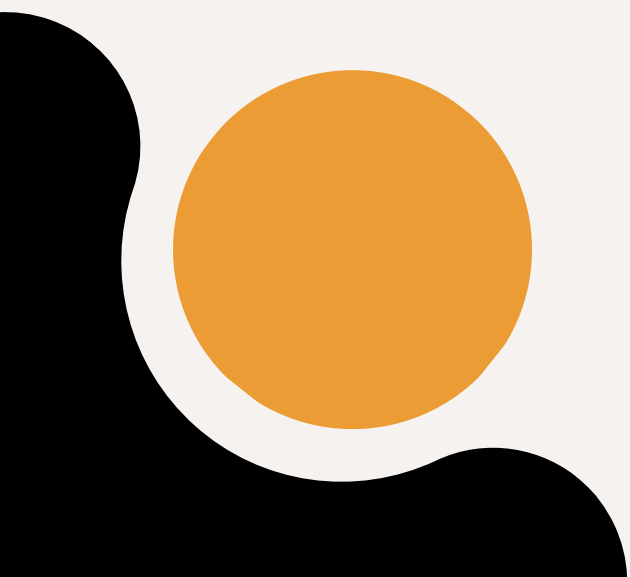


LLM FRAMEWORKS

LANG CHAIN AND LLAMA INDEX



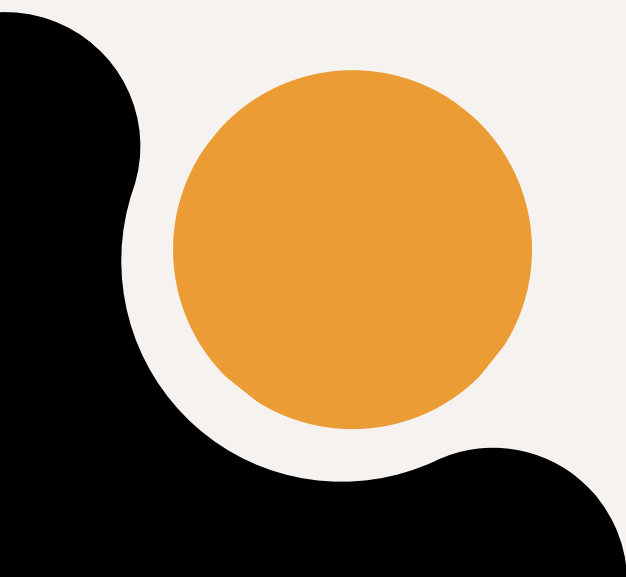
Hey, Nexus You know
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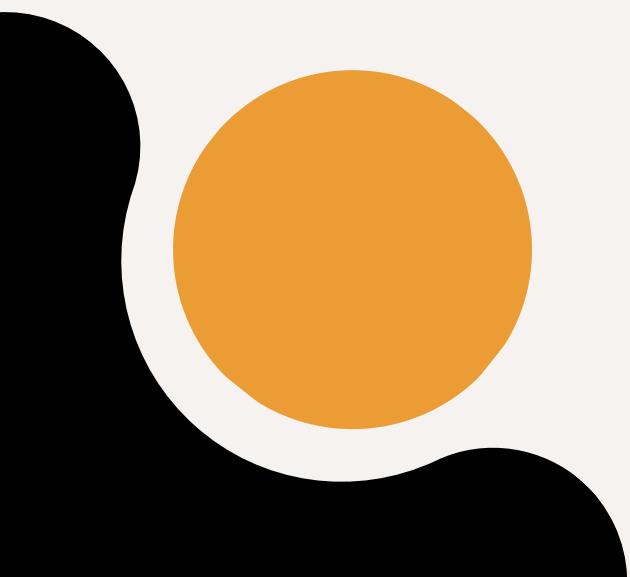
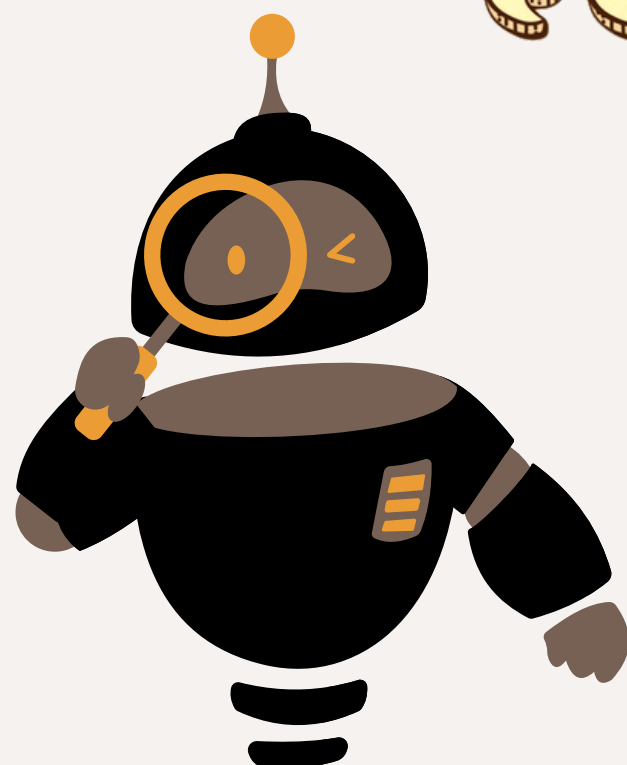


Hello, Nova Yeah, I
totally get it !
But what if I told you
there's a way to make it
easier?



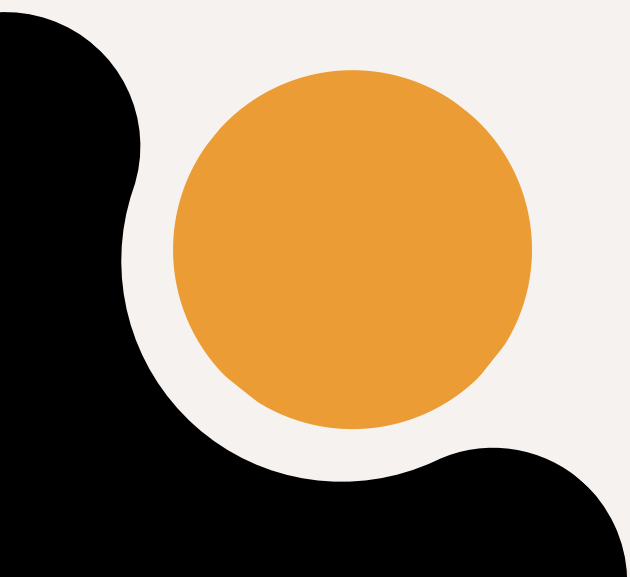
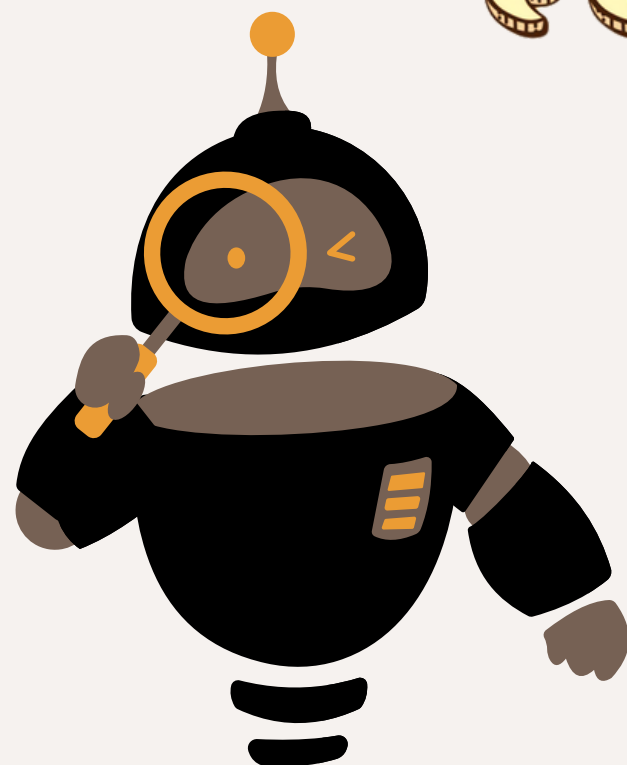
Really Nexus? What's
the secret?

Frameworks! They're like
cheat codes for LLMs,
unlocking shortcuts to
build, test, and deploy
faster!



That sounds
awesome! Tell me
more!

Come lets explore
about the Frameworks !

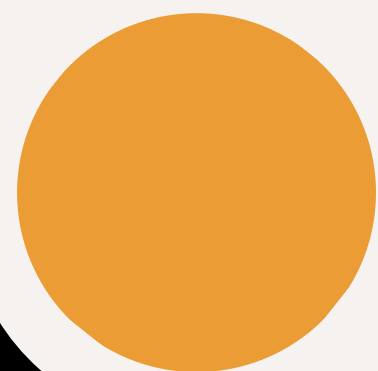


Introduction

LLM FRAMEWORKS

Large Language Models (LLMs) like GPT, LLaMA, and Claude have changed how we use AI, making chatbots, search, and text summarization possible. However, using these models in real applications can be complex. LLM frameworks help by making it easier to connect, retrieve, and manage these models efficiently. They provide tools to build AI-powered apps quickly and effectively.

Choosing right **framework is key !**




Different **Frame Works**

 DSPy

 Marvin

{{guidance}}

 Instructor


LLM

 LangChain

 adalfLOW

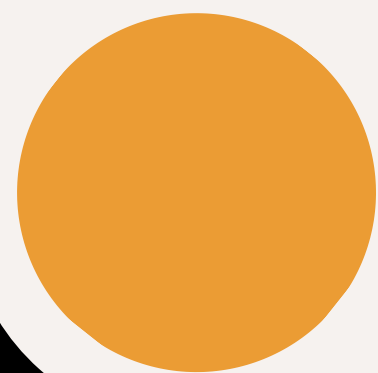
 Microsoft
AutoGen

 haystack
by deepset

 LlamaIndex

Lang Chain **Frame Work**

LangChain stands as a versatile and innovative framework for developing LLM-powered applications. Its comprehensive features, robust architecture, and extensive ecosystem make it an ideal choice for developers seeking to build, optimize, and deploy intelligent solutions with confidence.





BUILD

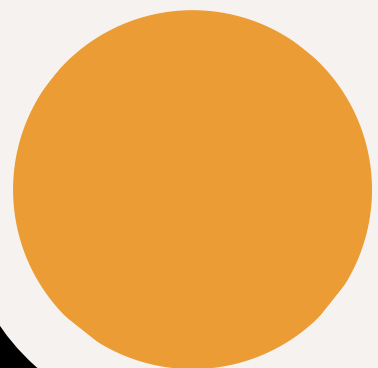
LangChain is a composable framework to build with LLMs. LangGraph is the orchestration framework for controllable agentic workflows.

RUN

Deploy your LLM applications at scale with LangGraph Platform, our infrastructure purpose-built for agents.

MANAGE

Debug, collaborate, test, and monitor your LLM app in LangSmith - whether it's built with a LangChain framework or not.



Components

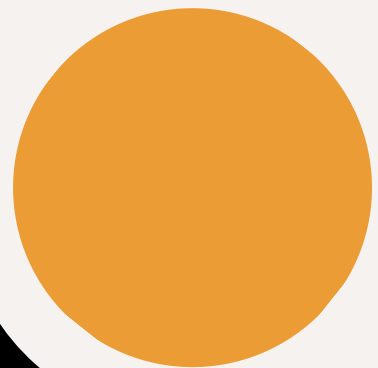
langchain-core: Core components and interfaces for app building.

langchain: Prebuilt chains and tools for quick implementation.

langgraph: Manages complex AI workflows.

langserve: Deploys LangChain applications.

LangSmith: Debugs, monitors, and fine-tunes workflows.





Chat Models

RAG

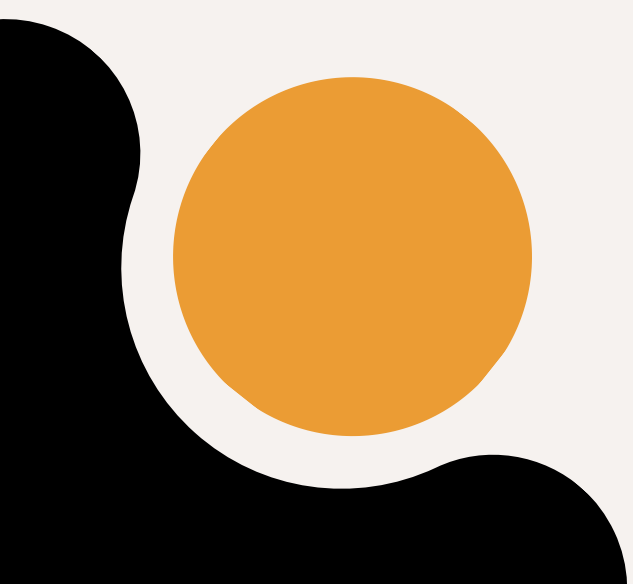
**Prompt
engineering**

AI Agents

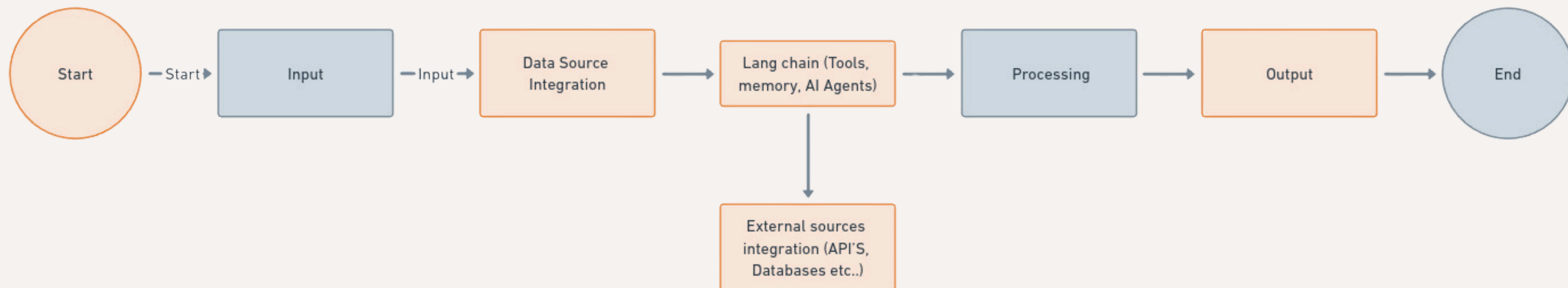
Tool Integration

Output Formatting

Function Calling



Simple Work Flow



Applications of LangChain

Conversational Agents: Build AI chatbots for natural, interactive communication.

Knowledge Retrieval: Create systems for smart document search and summaries.

Generative Applications: Generate tailored content like code or text.

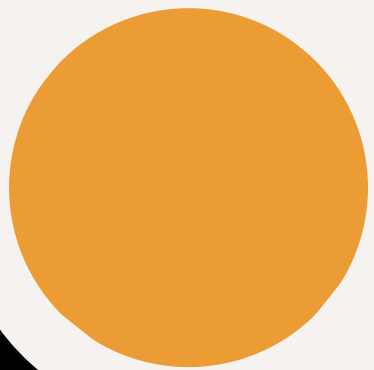
Workflow Automation: Automate repetitive tasks with AI.

Personalized Assistance: Provide adaptive and contextual AI responses.



LLama Index **Frame Work**

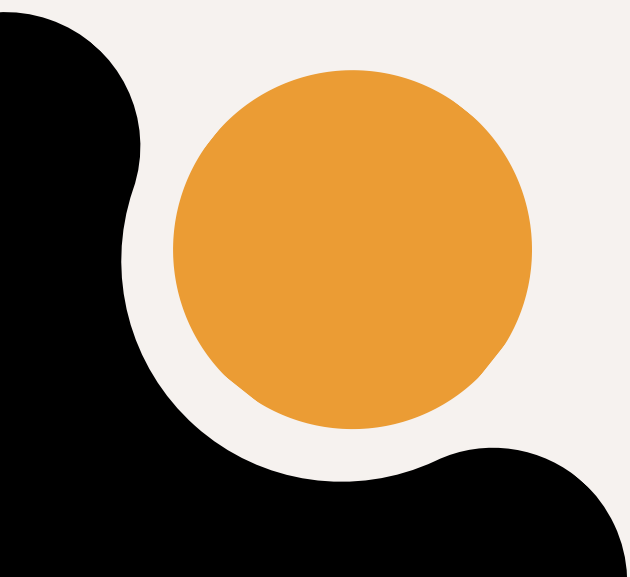
LlamaIndex (formerly known as GPT Index) is a powerful framework designed to bridge the gap between large language models (LLMs) and external data sources. It simplifies the process of integrating, querying, and managing complex datasets, enabling LLMs to interact with structured and unstructured data effectively.



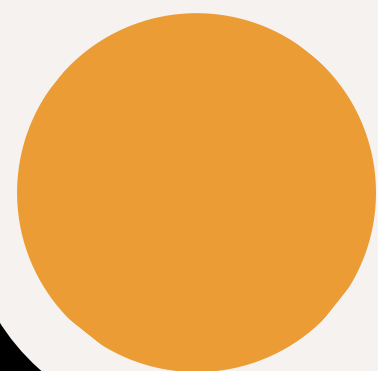
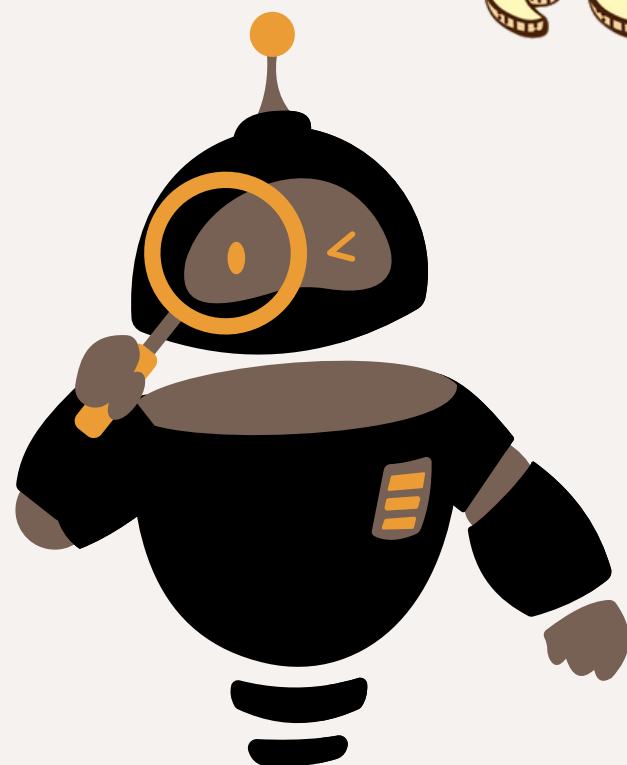
Simple Work Flow



Difference between LLaMa Index and LangChain ?



Hey, Nexus Whats the
difference b/w
Langchain and LLama
Index



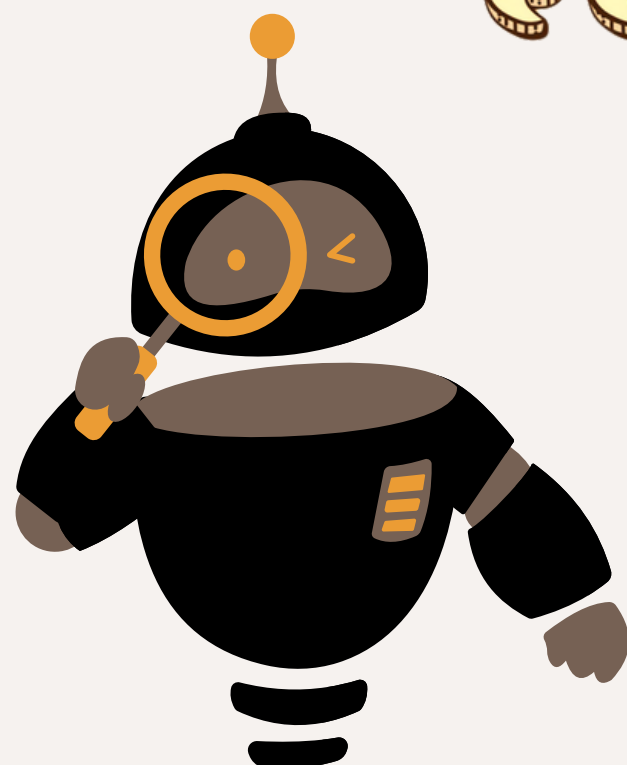
Hey, Nexus Whats the
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Index

Think of LlamaIndex as
the librarian—it's
amazing at organizing
and finding data.



Cool, so LangChain
does the same?

Not just that! LangChain's
like a creative multitasker.
It fetches info and builds
stories, answers questions,
or even runs workflows.



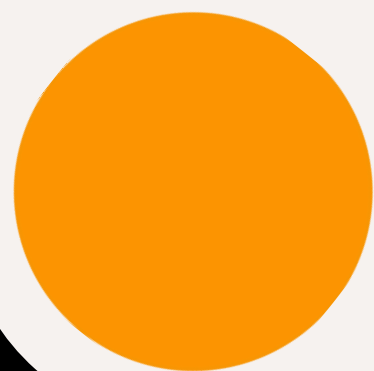
So, LlamaIndex finds
the book, and
LangChain makes it a
bestseller?

Exactly, Nova!



“Demo”

Content is no longer available



Thank you