

# INTRODUCTION TO LANGCHAIN



## What is LangChain?

- Framework to build apps using LLMs (like OpenAI, Gemini).
- Connects LLMs with external data (PDFs, DBs, web).
- Supports memory for multi-turn conversations.
- Lets LLMs use tools & APIs.
- Helps build AI agents with step-by-step logic.



# WHY LANGCHAIN?

- It helps build AI apps easily
- Works with OpenAI, Gemini, and other tools
- Manages steps like memory, tools, retrieval

LangChain is a Python tool that makes it easier to use LLMs. You don't need to write everything from scratch. It gives you ready-made tools to connect your AI with documents, memory, and more.

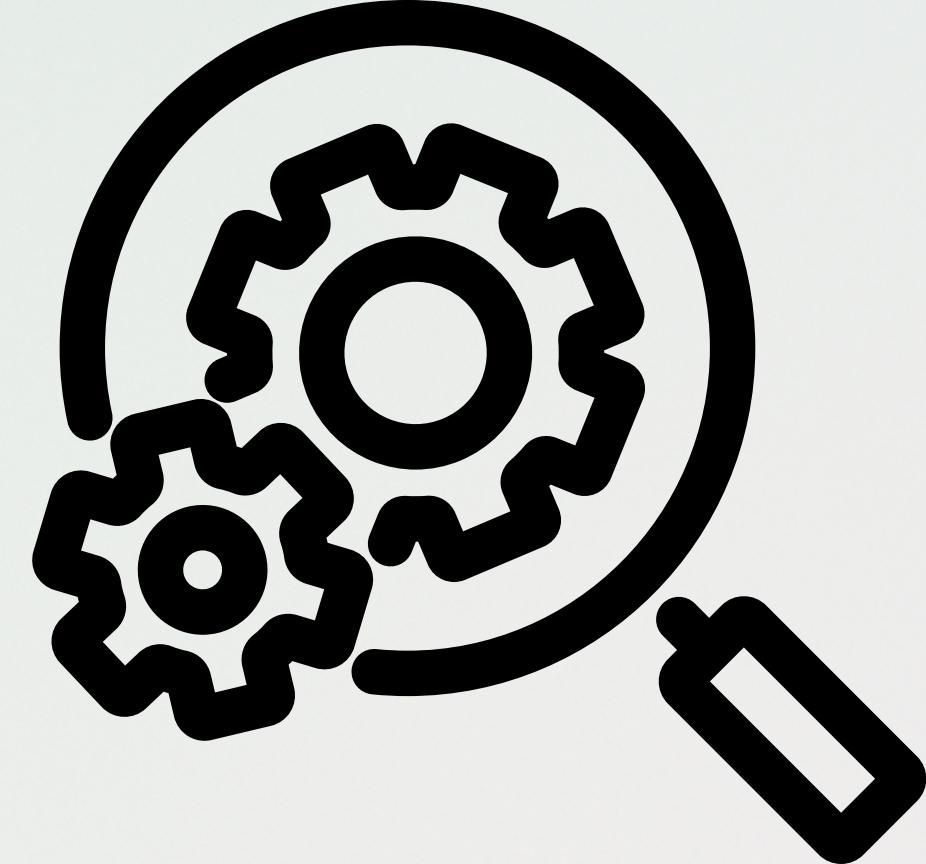
👉 LangChain also supports tools like OpenAI, Gemini, and even local LLMs.

# MAIN FEATURES OF LANGCHAIN



## LangChain Key Concepts

- LLMs
- Chains (multi-step process)
- Tools (like calculator, search)
- Memory (remembering past chat)
- Retriever (to fetch documents)



# REAL-WORLD USE CASES



## Real Applications Built with LangChain

- Chatbots with memory and context
- AI Assistants using APIs or tools
- QnA systems over PDFs, Notion, or private DBs
- Document summarizers and search agents
- AI Dev tools that write, test & explain code

