



PDF STUDY MATERIAL • UNCODEMY

LangChain Notes

Notes, roadmaps and practice material, curated by the Uncodemy trainer team.



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What's inside

01 What is LangChain?

02 Core building blocks

03 When it helps and when it does not

04 Common mistakes

05 Frequently asked questions

06 Related PDF resources

07 Enroll with UnCodemy

Quick answer



LangChain is an open-source framework that provides building blocks for LLM applications, such as model wrappers, prompt templates, retrievers, tools and output parsers. It changes quickly, so always check the documentation for the version you use.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



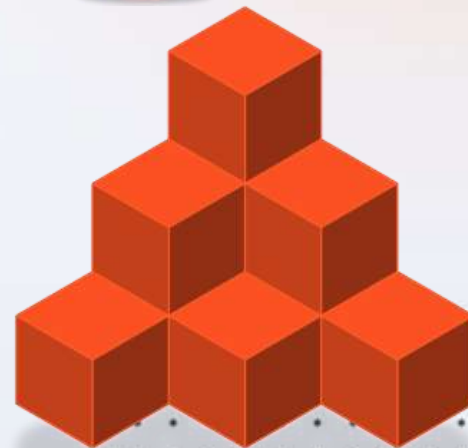
Job-focused prep

Questions and checklists for interviews

What is LangChain?



LangChain is a framework for building applications on large language models. It provides common pieces so you do not write them from scratch: connections to model providers, reusable prompts, ways to load and split documents, retrievers over vector stores, and tools a model can call. You can build a chain of steps, for example retrieve documents, format a prompt, call a model and parse the answer.



Core building blocks

Building block	What it does
Models	A consistent interface to chat and embedding models
Prompt templates	Reusable prompts with variables
Output parsers	Turn model text into structured data
Document loaders and splitters	Read files and split them into chunks
Vector stores and retrievers	Find the chunks most relevant to a question
Tools	Functions a model can call
Chains	Steps composed into a pipeline

When it helps and when it does not



Helps when you want ready-made components for RAG and tool use.



Optional for a very simple app: a direct API call can be clearer.



Consider how much abstraction you want; too many layers can make debugging harder.



Pin the library version in your project.

Common mistakes



Copying old tutorials: APIs change between versions.



Not pinning versions.



Building a long chain with no evaluation.



Ignoring prompts: frameworks do not fix a poor prompt.

How to use these PDFs



STEP 1

Read the roadmap

Start at the stage that matches your level.



STEP 2

Practise each topic

Try it yourself instead of only reading.



STEP 3

Revise key concepts

Use the tables before an interview or exam.



STEP 4

Move to the next stage

Go on when you can explain this one in your own words.

Your LangChain Notes PDF set



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Frequently asked questions



What is LangChain used for?

LangChain is used to build applications on large language models, with components for prompts, document loading, retrieval, tools and chaining steps together.



Do I need LangChain to build an LLM app?

No. Simple apps can call a model API directly. LangChain helps when you want ready-made components for retrieval, tools and pipelines.



What is the difference between LangChain and LangGraph?

LangChain provides general building blocks for LLM applications. LangGraph focuses on orchestrating stateful, multi-step agent workflows as graphs.

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