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Agentic AI Roadmap

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



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Quick answer



A practical path to agentic AI starts with LLM and prompting basics, moves to tool calling and the agent loop, then memory, orchestration, tool protocols such as MCP, and finally evaluation, safety and deployment. The field changes quickly, so check current documentation.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



Job-focused prep

Questions and checklists for interviews

A stage-by-stage roadmap



01

LLM foundations

Python, APIs, prompting, structured output

You can call a model and get reliable output



02

Tool calling

Function calling, handling results and errors

A model can use a tool you wrote



03

The agent loop

Plan, act, observe; stopping conditions

You can build a single-agent loop



04

Memory and retrieval

State, short and long-term memory, RAG as a tool

Your agent remembers and looks things up



05

Orchestration

Graph-based workflows, branching, loops

You can control multi-step flows



06

Multi-agent patterns

Specialised agents, hand-offs

You can split work across agents



07

Tool protocols

Model Context Protocol (MCP) concepts

You understand standard tool connections



08

Evaluation and safety

Test tasks, guardrails, permissions, human

You can trust and limit your agent

Tips



Start with one narrow task and add autonomy slowly.



Set limits on steps, time and cost.



Log every tool call so you can debug.



Re-check framework documentation often; APIs change.

Common mistakes



Jumping to multi-agent systems before a single agent works.



No evaluation set.



Giving tools broad permissions.



Treating a demo as production-ready.

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.

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Frequently asked questions



What is the roadmap to learn agentic AI?

Learn LLM and prompting basics, then tool calling, the agent loop, memory and retrieval, orchestration, tool protocols such as MCP, and finally evaluation and safety.



Do I need to learn generative AI before agentic AI?

Yes. Agents are built on language models, so understanding LLMs, prompting and APIs first makes agent concepts much easier.



Which frameworks are used to build agents?

Frameworks such as LangGraph, CrewAI and AutoGen are commonly used. Learn the concepts first, then choose a framework and check its current documentation.

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