



PDF STUDY MATERIAL • UNCODEMY

Generative AI Roadmap

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



uncodemy.com/generative-ai-roadmap-pdf





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Quick answer



A practical Generative AI roadmap goes from Python and machine learning basics, to how large language models work, then prompting, building applications with APIs and retrieval, and finally evaluation, safety and deployment.



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

Foundations

Python, APIs and JSON, basic statistics

You can write scripts and call a web API



02

ML basics

Supervised vs unsupervised learning, evaluation

You understand how models learn and how they are...



03

How LLMs work

Tokens, context window, transformers at concept

You can explain what an LLM is and its limits



04

Prompting

Clear instructions, examples, output formats

You get reliable results from a model



05

Building with APIs

Chat calls, parameters, structured output

You can build a simple LLM feature



06

Retrieval and RAG

Embeddings, vector search, chunking

Your app answers from your own documents



07

Evaluation and safety

Test sets, hallucination checks, privacy, prompt

You can measure and defend quality



08

Deployment

Cost, latency, monitoring

Your app runs reliably for real users

Tips for following a roadmap



Build a small project at every stage.



Do not skip evaluation: it separates demos from products.



Tools change fast; learn the concepts first and check current documentation for tools.



Keep notes of what each experiment taught you.

Common mistakes



Starting with frameworks before understanding LLMs.



Collecting certificates instead of building projects.



Skipping safety and privacy.



Chasing every new tool.

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 Generative AI Roadmap PDF set



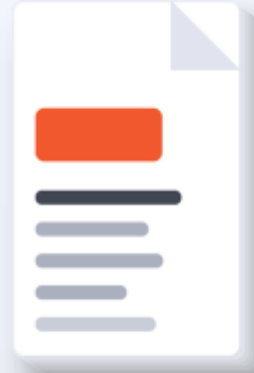
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Frequently asked questions



What is the roadmap to learn generative AI?

Start with Python and machine learning basics, learn how large language models work, practise prompting, build applications with APIs and retrieval, then learn evaluation, safety and...



Do I need machine learning before generative AI?

Basic ML knowledge helps you understand training, evaluation and limits, but you can start using LLM APIs with good Python skills and learn ML alongside.



How long does it take to learn generative AI?

It depends on your background and practice time. Plan the stages first and measure progress by projects you can explain.

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[+91 9818366550](tel:+919818366550)



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