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AI Testing Notes

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



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Quick answer



AI testing here means checking AI-based applications such as chatbots and retrieval-augmented generation (RAG) systems for accuracy, safety and consistency. Because outputs vary, testers use evaluation sets, metrics and human review instead of one fixed expected answer.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



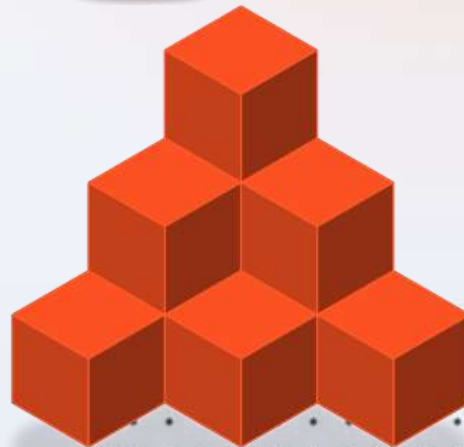
Job-focused prep

Questions and checklists for interviews

Two meanings of AI testing



AI testing can mean using AI tools to help write or run tests, or testing an AI-based application itself. These notes focus on the second: testing LLM applications, chatbots and RAG systems. The key difference from normal testing is that the same input can give different outputs, so a single expected string is rarely enough.



What to test in an LLM application

Area	Question	Example check
Accuracy	Is the answer correct and supported?	Compare with a reference answer or source document
Hallucination	Does it invent facts?	Questions with no answer in the documents; expect a refusal
Retrieval (RAG)	Did it fetch the right passages?	Check retrieved chunks against known relevant ones
Safety and security	Can it be tricked or leak data?	Prompt-injection and sensitive-data tests
Consistency	Are answers stable across runs?	Repeat the same prompts and compare
Bias and tone	Is it fair and appropriate?	Review sample outputs across groups and topics
Performance	Is it fast and affordable?	Measure latency and token cost

Techniques testers use



A fixed evaluation set of questions with reference answers.



Metrics for retrieval and answer quality, using evaluation tools such as RAGAS...



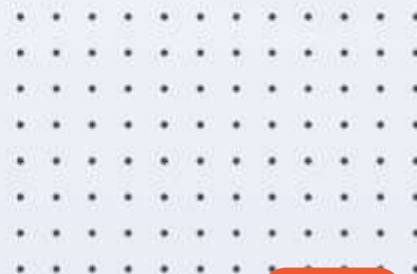
Tracing and logging of runs, for example with LangSmith or similar tools.



Human review of a sample, since automated scores are imperfect.



Regression runs after every prompt or model change.



Common mistakes



Testing with only a few prompts.



Expecting exact-match outputs.



Relying only on automated scores without human review.



Ignoring security tests such as prompt injection.

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 AI Testing Notes PDF set



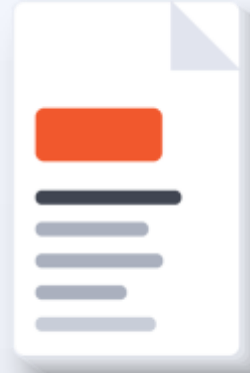
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Frequently asked questions



What is AI testing?

AI testing usually means checking AI-based applications such as chatbots and RAG systems for accuracy, safety and consistency. It can also mean using AI tools to help with testing.



How is testing an LLM application different from normal testing?

LLM outputs vary between runs, so testers use evaluation sets, metrics and human review instead of a single exact expected output.



What is hallucination testing?

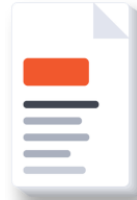
Hallucination testing checks whether a model invents facts. A common method is to ask questions that the supplied documents cannot answer and check that the system declines to guess.

Related Uncodemy PDF resources



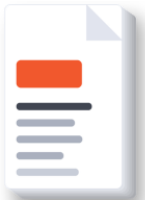
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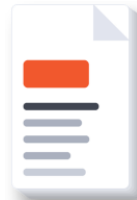
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