

Individual and student practice

Build a real GenAI app

For learners who want to build, not just learn. You work on a real world, production ready GenAI application from scratch. Not another basic chatbot or PDF to chat demo. You learn the full engineering lifecycle together with others who are also practicing.

WHAT YOU WILL COVER

Problem and solution design. Define a real use case, user needs and how you will measure success.

Architecture and tech stack. System design, pick models and tools, local vs cloud.

LLM and prompt strategy. Prompt patterns, few shot, system prompts and guardrails.

RAG pipeline. Ingestion, chunking and embeddings, vector DB and retrieval.

AI agents. Tool calling, planner and executor, orchestration.

APIs and backend. REST, async jobs, logging.

UI and frontend. Chat interface, streaming, error handling.

Auth and guardrails. Roles, input checks, safety filters.

Evaluation and testing. Test sets, quality checks, human review.

Cost. Track tokens, caching, model routing.

Human in the loop and deployment. Docker, monitoring, CI/CD.

WHO IT IS FOR

You are learning GenAI engineering, RAG and agentic AI, LangChain, LangGraph, LlamaIndex, Python and APIs, observability and AI security.

You want to move from tutorials to real application development. You do not need to be an expert. What matters is seriousness and consistency.

HOW WE WORK

Small group. We learn and build together. Weekly build sessions, code review, portfolio ready at the end.

K850 per person. Sessions in Lusaka and remote. Certificate and project repo you can show employers.