

Spring AI Short Course

40 · R19,995

Bring generative AI into the Java applications your business already runs. This hands-on course teaches Spring Boot developers to build AI features with Spring AI: prompts and S...

40

Hours of Training

R19,995

Course Fee

5 Days

Full-Time Option

JHB · Online

Nationwide

COURSE CURRICULUM

What You'll Learn

Getting Started with Spring AI

The ChatClient, Spring AI starters and the BOM, testing AI calls with WireMock, and choosing betw...

Evaluating Generated Responses

Testing non-deterministic output: relevancy and fact-checking evaluators, and self-evaluation at ...

Prompts & Generation Options

Prompt templates, stuffing context, system and user roles, generation options, and reading respon...

Talking with Your Documents (RAG)

Retrieval-augmented generation: vector stores, loading and splitting documents, and modular RAG w...

Conversational Memory

Chat memory, conversation IDs and persistent memory across requests — so your assistant remembers...

Tool-Driven Generation

Letting the model call your Java methods as tools to fetch live data and take action in your syst...

Model Context Protocol (MCP)

MCP clients, building your own MCP server in Spring, the HTTP and SSE transports, and exposing pr...

Voice & Images

Speech-to-text, text-to-speech, asking questions about images, and generating images from your Sp...

Observing AI Operations

Actuator metrics, Prometheus and Grafana dashboards, and tracing every AI call — including token ...

Safeguarding Generative AI

Document access control in RAG, securing tools, defending against adversarial prompts, and conten...

Generative AI Patterns

Practical patterns for summarisation, translation and sentiment analysis in business applications.

AI Agents & Capstone

Agentic workflows and patterns, and self-planning agents. Capstone: build and demo an AI-powered ...

IS THIS FOR ME?

Who Is This Course For?



Spring Boot Developers Adding AI

Add chat, document search, data extraction and automation to the Spring Boot services you already build — without switching to Python.



Enterprise Java Teams

Banks, insurers and corporates running Java can add AI inside their existing stack, security model and deployment pipeline.



Tech Leads & Architects

Understand how to design, observe, secure and test AI features in a Java architecture — and what they cost to run.



Java Bootcamp Graduates

Take the AI integration from the Java & AI Bootcamp much further — RAG, MCP, agents and production concerns.

COURSE OUTCOMES

What You'll Be Able to Do

- ¹³ Call OpenAI, Azure OpenAI and local Ollama models through Spring AI's ChatClient
- ¹³ Build a RAG service that answers questions from your own documents
- ¹³ Let the model call your Java methods as tools
- ¹³ Monitor AI calls, tokens and cost with Actuator, Prometheus and Grafana
- ¹³ Write prompt templates and test AI output with evaluators
- ¹³ Add persistent conversational memory to an assistant
- ¹³ Build your own MCP server in Spring
- ¹³ Secure AI features against prompt attacks and build agentic workflows

Prerequisites: Spring Boot proficiency — REST APIs, dependency injection and Spring Data (Code College Spring Boot course or equivalent). Docker installed for local models and vector stores.

WHAT TO EXPECT

Your Learning Experience



Expert-Led Training

Taught by experienced bootcamp instructors with 30+ years of combined industry experience.



Hands-On Projects

You write code from day one. Every concept is reinforced with real exercises and a practical project you keep.



Johannesburg & Online

Hybrid: one or two days a week at our Midrand campus (Vorna Valley), or 100% live online from anywhere in South Africa.



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