Java + AI: Free 6-Week Live Series

Free · 12 live sessions · AI-reviewed final project · Certificate

Trainer	Debajyoti Nath	**Coordinator**	Laxmikant
Schedule	Tue & Thu, 8:00–9:30 pm IST	**Sessions**	12 live on Zoom, with recordings
Dates	19 Nov 2026 – 7 Jan 2027 No classes on 24 and 29 Dec	**Fee**	Free · Limited seats · Online

In short

Learn to build real AI features with Java. In 12 live sessions, go from modern Java and Spring Boot to calling LLMs with Spring AI, RAG and simple agents, and finish with an AI project you can show in interviews.

Description

AI is changing what Java developers build. This free live series shows you how to add AI to real Java applications, step by step. You start with the modern Java and Spring Boot skills every project needs, then learn how large language models work and how to use them from Java with Spring AI: prompts, structured output, chat with memory, retrieval-augmented generation (RAG) and tool calling. Every topic is hands-on, and you finish by building and presenting your own mini AI project.

Who should join

- Students and freshers who know basic Java and want AI skills for placements
- Working Java developers who want to start building AI features
- Anyone preparing for Java roles where Generative AI is now expected

Prerequisites

- Basic Java: classes, methods, collections
- A laptop with JDK 21+ and an IDE (IntelliJ IDEA Community or VS Code)
- No prior AI experience needed

What you'll learn

- Modern Java features used in real projects: records, streams, Optional
- Building REST APIs with Spring Boot and Spring Data JPA
- How LLMs work: tokens, context windows, prompts and model choice
- Calling LLMs from Java with Spring AI
- Prompt engineering and structured JSON output
- Chat applications with memory and streaming responses
- RAG: embeddings, vector search and answering from your own documents
- Tool (function) calling and simple AI agents
- Building, testing and presenting a complete AI-powered Java project

Sessions

#	Date	Topic
1	Thu 19 Nov	Modern Java refresher: records, streams, Optional
2	Tue 24 Nov	REST APIs with Spring Boot
3	Thu 26 Nov	Databases with Spring Data JPA
4	Tue 1 Dec	Testing and clean project structure
5	Thu 3 Dec	How LLMs work: tokens, prompts, models
6	Tue 8 Dec	Calling an LLM from Java with Spring AI
7	Thu 10 Dec	Prompt engineering and structured JSON output
8	Tue 15 Dec	Chat with memory and streaming responses
9	Thu 17 Dec	RAG part 1: embeddings and vector search
10	Tue 22 Dec	RAG part 2 and tool calling for simple agents
11	Tue 5 Jan	Final project build session
12	Thu 7 Jan	Final project demos and next steps

Final project (AI-reviewed)

Build a small AI-powered Java application, for example a document Q&A assistant with RAG, a resume or job-description analyser, or a support chatbot with tool calling. Submit a GitHub repository with a README. It is reviewed by AI against the rubric below, once per student, and the trainer can adjust the marks.

Criterion	Marks	Full marks when
Working functionality	40	The app runs and the AI feature works as described in the README
Use of AI concepts	30	Uses Spring AI correctly, with sensible prompts, structured output or RAG
Code quality	20	Clean structure, readable code, basic error handling
README and demo	10	Clear setup steps and what the project does

Certificate

Learners who attend at least 75% of sessions (9 of 12) and submit the final project receive a verifiable GeeksArray certificate.

Questions? Contact the batch coordinator

Coordinator	Laxmikant
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Free to join. Seats are limited. Show your interest on the GeeksArray batch page.