

# AI Agents & Tools Foundations

*Teach your AI to use tools and perform actions in Java.*

DURATION

**1 day**

LEVEL

**Professional**

GROUP RATE

**\$2,900**

## CURRICULUM & HIGHLIGHTS

- Function Calling Design
- Java Tool Definition
- Agent Reasoning
- Multi-step Workflows
- Agent Error Handling

A standard chat AI is passive, but agents can actively interact with their surrounding systems. Moving from just answering questions to performing tasks requires a robust architecture for Function Calling (Tool Calling) where the AI can make decisions and act on its own in the application today.

This workshop teaches the foundations of autonomous agents in Spring AI through Active Learning. I demonstrate how to expose existing Java code as tools, handle multi-step reasoning, and build agents that can fetch real-time data or act in external systems with precision. We also explore the security and logical challenges in agent-based automation to ensure reliable results. You gain the knowledge to build agents that don't just talk, but actually deliver results by orchestrating tools and processes in a smart way here today in this course.

### TERMS

*Fixed rate (max 12) for remote delivery. Extra costs for onsite.*

### YOUR OUTCOME

*Ability to implement Function Calling and autonomous agents for automation today.*

### TARGET AUDIENCE

Developers wanting to move from passive chats to autonomous agents in their Java stack.

### PREREQUISITES

*Experience with Spring AI equivalent to 'Spring AI Jumpstart: Essentials' is required.*

### TECHNOLOGIES & FOCUS

AI AGENTS

FUNCTION CALLING

TOOLS

SPRING AI

AUTOMATION

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**Andreas Olsson**

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