



AI Expert Bootcamp

Two bootcamps, one programme: build AI solutions across the full stack, from low-code tools to production code.

Certificate Bootcamp | B08

Duration: 216 Hours

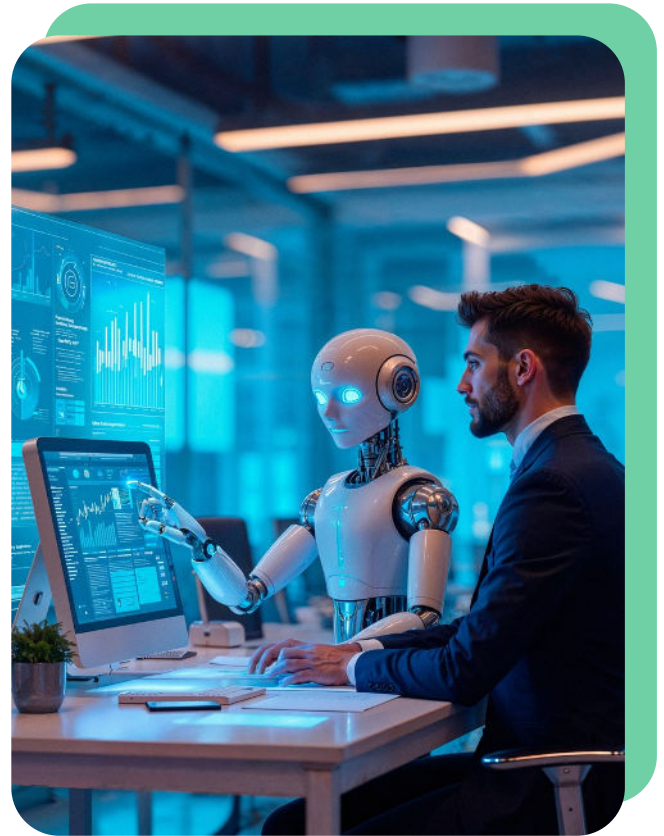
Level: Intermediate



AMSTERDAM
DATA ACADEMY

WHAT YOU'LL LEARN

- Understand what AI is and how large language models work
- Build autonomous AI agents with n8n and Claude
- Build and deploy web applications with vibe coding (Lovable)
- Enhance LLMs with your own data using retrieval-augmented generation
- Build GenAI applications with LangChain and AI models on Azure
- Direct Claude Code as an agentic coding tool in a real repository
- Apply responsible AI: ethics, governance and the EU AI Act



COURSE CONTENT

Course 1: AI Fundamentals

- What AI is, how LLMs work, the AI landscape
- AI applications across different fields

Course 2: Building AI Agents (n8n & Claude)

- Agents that reason, act and complete tasks
- Connecting LLMs to APIs, databases and tools

Course 3: Vibe Coding with Lovable

- From idea to working, deployable web app
- Effective prompting, debugging, integrating APIs

Course 4: Retrieval-Augmented Generation

- Vector databases combined with LLMs
- Accurate, grounded answers from your own data

Course 5: Building GenAI Apps with LangChain

- Connecting models to external data sources
- Custom AI agents that reason, retrieve and act

Course 6: Building AI Models on Azure

- Real-world AI deployment on Azure
- Your own AI model for a specific use case

Course 7: Programming with AI (Claude Code)

- Context engineering and spec-driven development
- Reusable skills and MCP connections

Course 8: AI Literacy & Governance + Final Assignments

- Ethics, governance and the EU AI Act
- Mentored final assignment per bootcamp



AFTER THIS BOOTCAMP

You'll build AI solutions across the full stack, from low-code agents to production applications on Azure, with an official certificate that proves it.

OFFICIAL CERTIFICATE

This bootcamp leads to an official ADA certificate at NLQF Level 6, comparable to bachelor level in the nationally recognised qualification framework. Your certificate proves a verified, professional level of knowledge and skills, valued by employers across the Netherlands.

Ready for your next step?

Book a free study-advice call

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+31 85 004 9642