



Applied AI Bootcamp

Apply AI hands-on: build agents, vibe-coded apps and RAG solutions, no coding background required.

Certificate Bootcamp | B07

Duration: 144 Hours

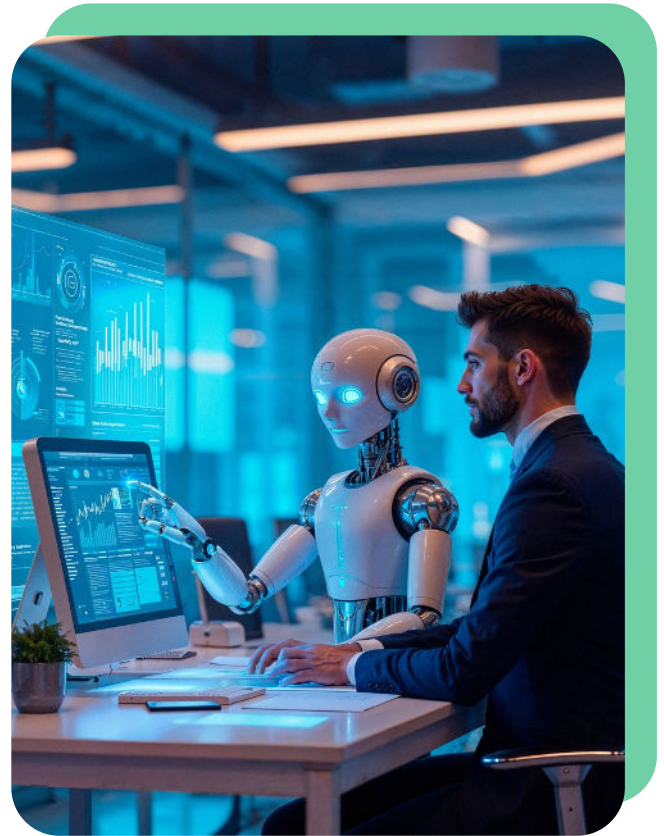
Level: Beginner



AMSTERDAM
DATA ACADEMY

WHAT YOU'LL LEARN

- Understand AI fundamentals: models, capabilities and limitations
- Build autonomous AI agents with n8n and Claude
- Build and launch web applications with vibe coding (Lovable)
- Ground AI in your own knowledge with Retrieval-Augmented Generation
- Apply responsible AI: ethics, governance and the EU AI Act
- Deliver a real, mentored capstone project



COURSE CONTENT

Course 1: AI Fundamentals

- What AI is and the main model types
- How large language models work
- The AI tool landscape and applications per sector

Course 2: Building AI Agents (n8n & Claude)

- Autonomous agents with n8n and Claude
- Connecting LLMs to APIs, databases and tools
- Agents that reason, act and complete tasks

Course 3: Vibe Coding with Lovable

- From idea to working prototype with Lovable
- Effective prompting, troubleshooting and API integration
- Deploy your own secure web application

Course 4: Retrieval-Augmented Generation

- Vector databases and embeddings
- Combining retrieval with large language models
- Building a knowledge-grounded AI application

Course 5: AI Literacy & Governance

- Where human judgment ends and algorithms take over
- Ethics, bias and transparency in practice
- Governance and the EU AI Act

Course 6: Final Assignment

- A real case in which everything comes together
- Intensive guidance from your personal mentor
- Closing presentation to your peers



AFTER THIS BOOTCAMP

You'll build AI agents, vibe-coded applications and RAG solutions for your organisation, and apply them responsibly, without a heavy coding background.

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

amsterdamdataacademy.com/study-advice

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