



AI Professional Bootcamp

Master the AI essentials and apply them hands-on: two stacked bootcamps in one programme.

Certificate Bootcamp | B09

Duration: 216 Hours

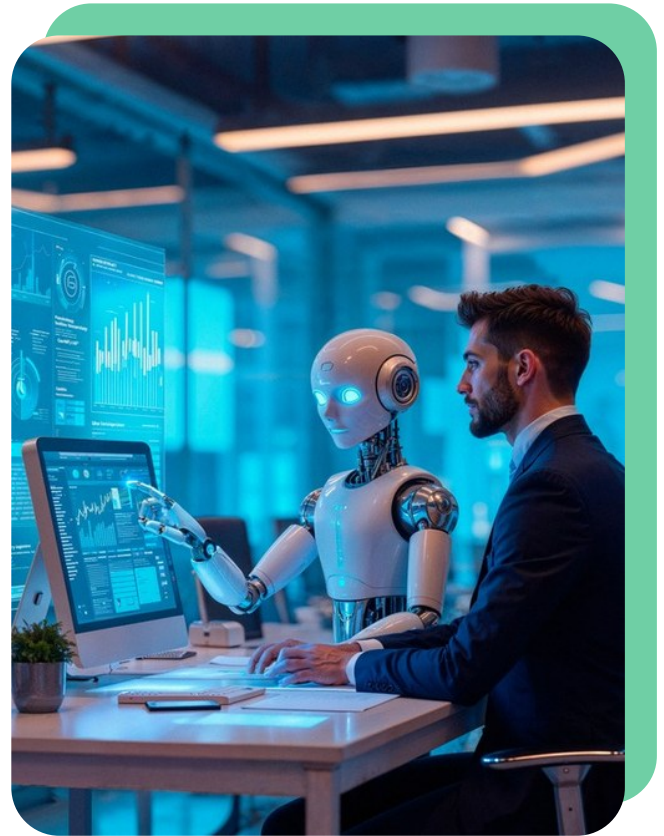
Level: Beginner



AMSTERDAM
DATA ACADEMY

WHAT YOU'LL LEARN

- Apply AI tools like ChatGPT, Copilot and Claude in real business workflows
- Craft powerful prompts and use GenAI across business functions
- Build autonomous AI agents with n8n and Claude
- Build applications with vibe coding (Lovable) and RAG
- Design an AI strategy and lead AI adoption in your organisation
- Apply responsible AI: ethics, governance and the EU AI Act



COURSE CONTENT

Bootcamp 1: AI Essentials

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: Prompt Engineering

- Prompting strategies that steer model output
- Prompt chaining for complex tasks
- Hands-on practice with ChatGPT and Claude

Course 3: Working with AI

- A practical prompting framework for daily work
- Writing, summarising, analysing and planning with AI
- Working safely with your own documents and data

Course 4: AI Strategy & Impact

- The ADA AI Strategy Canvas and use case mapping
- Impact assessments in practice: FRIA and IAMA
- Risk and value: mitigations and the EU AI Act

Bootcamp 2: Applied AI

Course 5: 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 6: Vibe Coding with Lovable

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

Course 7: Retrieval-Augmented Generation

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

Course 8: AI Literacy & Governance + Final Assignments

- Responsible AI, ethics and the EU AI Act
- Two mentored capstone projects
- Closing presentations of both bootcamps



AFTER THIS BOOTCAMP

You'll go from AI beginner to confident AI practitioner: able to lead AI adoption in your organisation and build AI agents, vibe-coded applications and RAG solutions yourself, 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

+31 85 004 9642