

AI Expert Bootcamp

Build across the full AI stack, from low-code tools to production code.

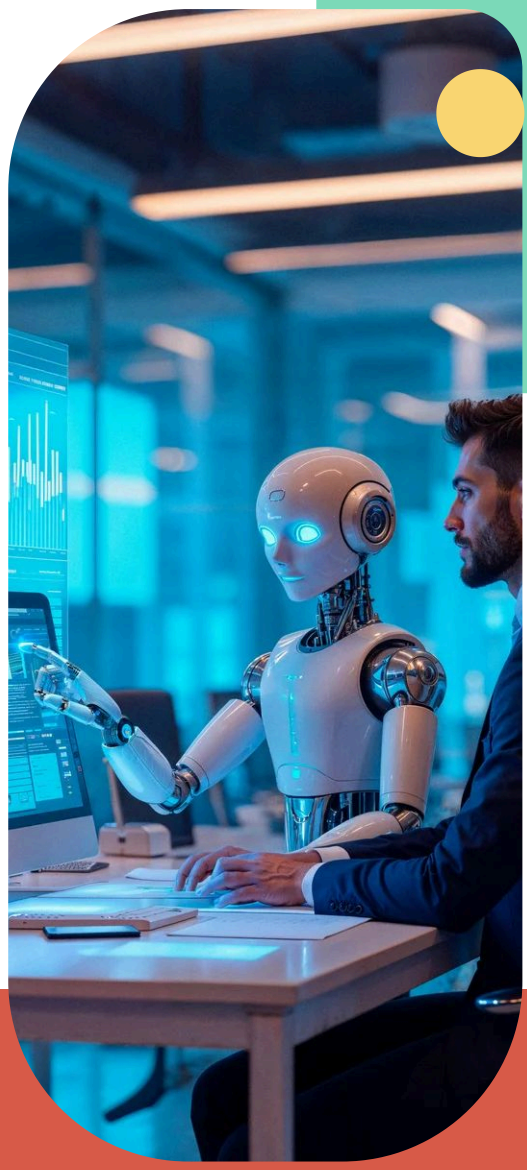
Bootcamp | B08
Level: Advanced
Study load: 216 hours
Certificate of Completion

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WHAT YOU'LL LEARN

- Build autonomous AI agents with n8n and Claude.
- Develop applications through vibe coding (Lovable) and retrieval-augmented generation (RAG).
- Create GenAI applications with LangChain and build AI models on Azure.
- Program with AI using Claude Code in real repositories.
- Apply responsible AI principles, including ethics, governance, and EU AI Act compliance.



TARGET AUDIENCE

Who is this for

Professionals who want to build AI solutions across the full technology stack, from low-code platforms to programming.

Prerequisites

Technical affinity is beneficial. Prompting basics and some practical experience with prompting. Python (functions, classes, pip). Comfortable writing and running code. Familiarity with a terminal and Git.

Roles after

AI Engineer · AI Specialist · GenAI Developer

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CURRICULUM

A03: AI Essentials Course
The foundation course for every AI professional: understand AI, generative AI and prompting.

A29: Vibe Coding with Lovable Course
Build working apps with AI, no coding experience required.

A02: Building AI Agents Course
Automate complex workflows with AI, no deep coding required.

A26: Retrieval-Augmented Generation (RAG) Course
Build AI that answers from your own knowledge base, accurately.

A54: Final Assignment: Applied AI
Capstone: apply AI agents, vibe coding and RAG to a real, practical AI project.

A17: Engineering AI Solutions on Azure Course
Design, train, and deploy AI on the world's leading cloud platform.

A27: Building AI Agents with LangChain Course
Build production LLM applications, from chains to RAG pipelines and agents.

A30: Programming with AI (Claude Code) Course
Direct Claude Code to build, test and ship real software.

A24: AI Literacy & Ethics Course
Understand AI deeply enough to lead, and question, it.

A55: Final Assignment: AI Engineering
Capstone: deliver a production-worthy generative AI application end-to-end.

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ASSESSMENT FRAMEWORK

- Assessment is competency-driven and rubric-based (NLQF level 6), with an independent examiner for every module.
- What you'll be assessed on:
  - A54: Final Assignment: Applied AI
  - A55: Final Assignment: AI Engineering
- Full method, rubrics and resit procedure: amsterdamdataacademy.com/examination-regulations



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AFTER THIS BOOTCAMP

> You'll build AI solutions across the full stack, from agents and vibe-coded apps to production-ready GenAI applications on Azure, with two capstone projects to prove it.

OFFICIAL CERTIFICATE

> After completing the AI Expert Bootcamp you receive an official ADA Certificate of Completion. This bootcamp is part of ADA's programme at NLQF Level 6, comparable to bachelor level, and is valued by employers across the Netherlands.

Ready for your next step?
Book a free study-advice call
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