

ADVANCED ENTRY · FOR DEVELOPERS WHO ALREADY SHIP

Advanced AI Systems & Automation Developer

For developers with delivery experience: build integrated AI systems with RAG, agents, evaluation, and runbooks — and prepare for the AWS Certified AI Practitioner exam.

ONE MODULE · TWELVE WEEKS

 AI Systems

M1-3



Free!

100% tuition-free

with a Bildungsgutschein from the Agentur für Arbeit or Jobcenter, for eligible learners in Germany.*



**Certification
preparation**

Structured preparation for the AWS Certified AI Practitioner, plus your Ai School / StartSteps completion certificate.

3 months full-time

Monday to Friday · 600 teaching units · one module, ending with a systems capstone.



LANGUAGE OF INSTRUCTION

English

German for career and job-market topics



LOCATION

100% online

Instructor-led, with daily practical labs



DEVICES

Laptop provided

For the duration of the course

*Eligibility is decided individually by the employment agency — Ai School cannot guarantee approval.

Three months to production-minded AI systems.

A lateral-entry program for people who already write and ship code. You go straight into integration reliability, RAG and agents, evaluation and cost, and the operational work that keeps an AI service running.

WHAT'S INSIDE 03 What you learn, week by week 04 How you learn 05 Career & certificates 06 How to start

 DURATION 3 months, full-time Monday to Friday	 VOLUME 600 teaching units ~10 units a day	 FORMAT Live online Instructor-led	 GROUP SIZE Max. 12 participants Per group
 LANGUAGE English instruction German for career topics	 LEVEL Advanced entry Git, APIs, and a deployed project	 ENTRY CHECK Portfolio review Plus a short technical conversation	 COST 100% tuition-free With a Bildungsgutschein, if eligible*

Who it is for

- Software developers with Git, APIs, and at least one deployed project
- IT professionals moving laterally into AI systems engineering
- Developers who want production patterns, not another intro course

What makes it different

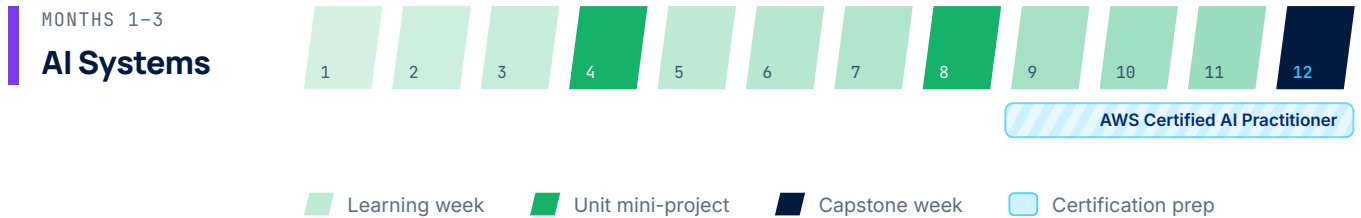
- Starts where you are**
No beginner foundations. The entry check confirms you already code, so week one begins with integration contracts and failure modes.
- Reliability is the subject**
Retries, queues, logging, alerts, and runbooks — plus evaluation harnesses and token cost modelling for anything LLM-shaped.
- Governance inside the architecture**
GDPR data minimization, access control, and a DPIA-style checklist applied to your own system design, not taught as theory.

By the end of the program, you can

- Design integrations that survive retries, failures, and load
- Build RAG services with chunking, embeddings, and a vector store
- Give agents bounded actions and an audit trail
- Run an evaluation harness and model the token cost
- Deploy and monitor an AI service with FastAPI and CloudWatch
- Hand over a system with a runbook someone else can operate

What you learn, week by week

One module of 600 teaching units, split into three units. Units end with a short mini-project; the module ends with a capstone week.



MODULE 1 OF 1 · MONTHS 1-3 · 600 TEACHING UNITS

01 AI Systems

Connect systems and ship RAG and agent services that are reliable and affordable.

1.1 · Weeks 1-4

Integration & reliability

- Systems thinking: contracts and failure modes
- Events, webhooks, retries, and queues
- Advanced n8n orchestration
- Logging, alerts, and runbooks

Mini-project · A reliable integration with test evidence

1.2 · Weeks 5-8

RAG, agents, evaluation & cost

- Chunking, embeddings, and vector databases
- Agents and tools with an audit trail
- LLM evaluation and token cost modeling
- Deploying and monitoring AI services with FastAPI

Mini-project · RAG microservice + eval report + cost estimate

1.3 · Weeks 9-12

Capstone with governance

- Architecture and data-flow design
- Security and governance for AI systems
- DPIA-style checklist and hardening

Prep · AWS Certified AI Practitioner

Capstone · Final capstone demo

How the module works

WEEKS 1-11

Learn and build

Live input every morning, labs every afternoon. Each unit closes with a short mini-project that pulls its topics together.

Topics and tools are indicative and updated as the industry changes. This module is also block 3 of the 12-month Full Stack AI & Cloud Engineering program.

aischool.de

FINAL WEEKS

Certification prep

Exam preparation happens inside the program hours, alongside your project work.

WEEK 12

Capstone week

Finish, test, and demo your project. You get feedback and add it to your portfolio.

How you learn

You work full-time in a real online classroom with other experienced developers. Mornings are live. Afternoons are labs, project work, and reviews.

A typical day

MORNING	Live class New concepts, walkthroughs, instructor demos, and time to ask questions. The cohort learns together, in real time.
DAILY	Cohort stand-up A short check-in on goals and blockers — the way modern product teams work.
AFTERNOON	Guided labs & projects Hands-on labs with real tools, project time, and certification prep. An instructor is always available when you need help.
WEEKLY	Reviews Project reviews with peers and mentors, plus a learning partner for the week.

You are not learning alone

■ Mentoring

Instructor feedback, one-on-one mentoring, review sessions, and extra practice when a topic is hard.

■ Assessment

Labs with feedback, unit mini-projects, and a capstone demo at the end of every module.

■ Completion certificate

Meet the attendance, assignment, project, and assessment requirements to receive your Ai School / StartSteps certificate.

Your toolbox

Tools are examples. We update the stack as the industry changes.

AI ENGINEERING

 Python

 FastAPI

 LangChain

 Vector DBs

 CloudWatch

Built for AI systems and integration roles

You already have delivery experience. This program adds the AI systems layer and the evidence — evaluation reports, runbooks, and a capstone — that hiring teams look for.



Certification preparation

WEEKS 9–12

AWS Certified AI Practitioner

Amazon Web Services

WEEK 12

Ai School / StartSteps completion certificate

On completing the module

We prepare you for external exams; passing cannot be guaranteed and is not required to complete the course.

Roles this program can prepare you for

Integration Engineer

AI Automation Engineer

AI Systems Engineer

GenAI Application Engineer

Your readiness depends on your effort, project quality, language level, and prior experience.

Your portfolio after three months

- ✓ A RAG microservice with an evaluation report
- ✓ A reliable integration with runbook documentation
- ✓ A systems capstone with an operational narrative
- ✓ Cost and monitoring evidence for a running service

Career support

- ✓ CV and LinkedIn improvement
- ✓ Portfolio preparation and project storytelling
- ✓ Interview practice and soft skills
- ✓ Job-search strategy for Germany

Start your program

As early as possible. Funding decisions and course preparation take time — start before the course date gets close.

1

Apply or book a free call

Tell us your goals on aischool.de. We help you choose the right program and tell you the next start date.

2

Orientation conversation

We look at your background, goals, and funding situation together.

3

Talk to your agency

Book an appointment at your Agentur für Arbeit or Jobcenter. We give you the course documents.

4

Start with your cohort

When your funding is in place, you join your group. We provide a laptop for the course.

What you need

- ✓ Demonstrable programming experience: Git, JavaScript/TypeScript or Python, APIs
- ✓ At least one deployed project you can walk us through
- ✓ A portfolio review and a short technical suitability conversation
- ✓ Time for full-time online learning, Monday to Friday, for three months
- ✓ For Bildungsgutschein funding: living in Germany and registered with Agentur für Arbeit or Jobcenter

Good to have

- ✓ Docker and CI/CD already part of how you work
- ✓ Experience calling third-party APIs in production
- ✓ A clear target role — integration, automation, or AI systems

For your Agentur für Arbeit / Jobcenter appointment

Show these details to your case worker.

MEASURE

Full Stack AI & Cloud Engineering mit individuellem Eintritt

MODULES IN THIS PROGRAM

Baustein 3: AI Systems & Automation Development

PROVIDER

StartSteps Digital Education GmbH, Berlin

APPROVAL

AZAV-approved measure · CERTQUA · Reg. no. 2026M101555-10001

SCOPE

1 × 600 UE = 600 UE · fully online

Questions? Let's talk.

Book a free advisory call or write to us. We usually reply within 1–2 business days.

PROGRAM & CURRICULUM

Zia@aischool.de

FUNDING & PAPERWORK

info@startsteps.org
+49 32 221854528



Scan for the program page and application

*Eligibility is decided individually by the employment agency — Ai School cannot guarantee approval.

StartSteps Digital Education GmbH · Rheinsberger Str. 76/77 · 10115 Berlin
HRB 220327 B · VAT ID DE334434389