

Curriculum Agentic AI

Full-time: 8 weeks / 2 months

English

Remote



Become an Agentic AI Engineer and build autonomous, real-world systems.

AI agents are transforming how software gets built, and as an Agentic AI Engineer, you design, orchestrate, and deploy multi-agent systems, integrate the modern agent stack, and create production-grade AI that reasons, plans, and acts — from research assistants to fully autonomous workflows. If you want to build the next generation of intelligent systems, this is your path.

Join an immersive training program to master the agentic AI stack and build production-ready autonomous systems. You'll work with LangGraph, MCP, Pydantic AI, and the OpenAI Agents SDK, optimize multi-agent orchestration, and gain hands-on experience with projects like ReAct loops, RAG-powered memory, and a full capstone agent deployed to production. Experienced coaches will help you build a strong technical foundation and the skills needed to launch your career as an AI or agent engineer.

Future jobs for you:

- › LLM Engineer
- › AI Engineer
- › Machine Learning Engineer

The curriculum shown here is an exemplary guide to course content. We reserve the right to slightly adjust content and schedule for didactic and organizational reasons, or to reflect current labor-market requirements. Any adjustments will not affect the quality or the learning outcomes of the course.

Tech Stacks

Deep Learning

- Neural Networks & Backpropagation
- Training Strategies & Frameworks
- Convolutional Neural Networks
- Transfer Learning
- Project: Image Classification

NLP & Large Language Models

- Transformers & Modern LLMs
- LLM APIs & Prompt Engineering
- Retrieval-Augmented Generation (RAG)
- Fine-Tuning Concepts
- Project: LLM-Powered Tool

Agentic AI Systems

- Tool-Calling & Structured Outputs
- Agent Loop & ReAct
- Agent Frameworks
- State, Routing & Checkpointing
- Streaming & Interruption
- Human-in-the-Loop & Idempotency
- Embeddings, Vector Stores & Chunking

RAG as a Tool, Critique & Re-Query

- Adaptive RAG & Query Routing
- Memory Architectures
- Tool Protocols & Custom Tool Servers
- Hooks & Subagent Patterns

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Multi-Agent Patterns

- Observability & Production Engineering

Observability & Tracing

- Type-Safe Production Agents
- Integration Patterns
- Cost-Latency Engineering
- Eval-Driven Development & LLM-as-Judge

Safety & Governance

- Safety in Production
- AI Governance & EU AI Act

Capstone Project

You'll get a
**CLAUDE PRO
SUBSCRIPTION**
during the course

Soft Skills Development

Attention to Detail

Communication

Ownership

Storytelling

Resilience

Stakeholder Management

research skills

Curiosity

Time Management

Problem Solving

Teamwork

creativity

Adaptability

Analytical Thinking

Practical Project

Implementation of acquired knowledge in a real-life scenario.

Supported Job Search

Our career team of 4 coaches actively run the Career Compass program that train and support job searches, and we organize regularly masterclasses and events with industry experts.

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Capstone Project

Du bekommst einen
CLAUDE PRO
ZUGANG
während des Kurses

Werde Agentic AI Engineer und baue autonome KI-Systeme für die reale Welt.

KI-Agenten verändern gerade, wie Software entwickelt wird – und als Agentic AI Engineer entwirfst, orchestrierst und deployst du Multi-Agenten-Systeme, integrierst den modernen Agenten-Stack und baust produktionsreife KI, die eigenständig denkt, plant und handelt – von Recherche-Assistenten bis zu vollständig autonomen Workflows. Wenn du die nächste Generation intelligenter Systeme mitgestalten willst, ist das dein Weg.

Steige in eine intensive Weiterbildung ein, um den Agenten-Stack zu meistern und produktionsreife autonome Systeme zu bauen. Du arbeitest mit LangGraph, MCP, Pydantic AI und dem OpenAI Agents SDK, optimierst Multi-Agenten-Orchestrierung und sammelst praktische Erfahrung mit Projekten wie ReAct-Schleifen, RAG-gestütztem Memory und einem vollständigen Abschlussprojekt, das produktiv deployed wird. Erfahrene Coaches helfen dir, ein starkes technisches Fundament aufzubauen und die Fähigkeiten zu entwickeln, die du für den Einstieg als AI- oder Agent-Engineer brauchst.

Zukunftsjobs für dich:

- › LLM Engineer
- › AI Engineer
- › Machine Learning Engineer

Der hier dargestellte Lehrplan dient als beispielhafter Leitfaden für die Kursinhalte. Wir behalten uns das Recht vor, die Inhalte und den Zeitplan aus didaktischen oder organisatorischen Gründen sowie zur Anpassung an aktuelle Anforderungen des Arbeitsmarktes geringfügig zu ändern. Eventuelle Anpassungen haben keine Auswirkungen auf die Qualität oder die Lernergebnisse des Kurses.

Entwicklung von Soft Skills

Detailgenauigkeit **Resilienz**

Stakeholder-Management

Kommunikation **Storytelling**

Recherchefähigkeiten

Problemlösung **Teamwork**

Eigenverantwortung

Kreativität **Anpassungsfähigkeit**

Analytisches Denken

Zeitmanagement **Neugier**

Praxisprojekt

Umsetzung des erworbenen Wissens in einem realen Szenario.

Unterstützte Jobsuche

Unser vierköpfiges Karriere-Team leitet aktiv das „Career-Compass“-Programm, das bei der Jobsuche schult und unterstützt; zudem organisieren wir regelmäßig Masterclasses und Veranstaltungen mit Branchenexperten.

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