

AWS Partner Day - Developing Generative AI Applications in AWS

Cursusduur: 2 Dagen Cursuscode: GKAWS-DGAA

Beschrijving:

This course is free for AWS partners - Learn to build and customize AI solutions by using Amazon Bedrock programmatically

In this advanced two-day course, software developers learn to build and customize AI solutions by using Amazon Bedrock programmatically. Through hands-on exercises and labs, participants will invoke foundation models through Amazon Bedrock APIs, implement Retrieval Augmented Generation (RAG) patterns with Amazon Bedrock Knowledge Bases and develop AI agents with tool integration.

The course focuses on the practical implementation of prompt engineering techniques, responsible AI practices with Amazon Bedrock Guardrails, open-source framework integration, and architectural patterns for real-world business application.

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Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

This course is intended for AWS partners software developers..

Doelstelling:

- After this course participants should be able to:
- Define the importance of generative AI and explain its potential risks and benefits
- Discuss the technical foundations and key terminology for generative AI
- Recognize the benefits and use cases of Amazon Bedrock
- Describe the basic functions, types, and various use cases of foundation models
- Define prompt engineering and apply general best practices when interacting with FMs
- Describe Amazon Bedrock foundation models, inference parameters, and key Amazon Bedrock APIs
- Describe architecture patterns that can be implemented with Amazon Bedrock for building useful generative AI applications
- Describe how to integrate LangChain with large language models (LLMs), prompt templates, chains, chat models, text embeddings models, document loaders, retrievers, Agents for Amazon Bedrock
- Build and test several examples of use cases that employ various Amazon Bedrock models, LangChain, and the Retrieval Augmented Generation (RAG) approach

Vereiste kennis en vaardigheden:

We recommend that attendees of this course have:

- Completed the Generative AI Essentials AWS instructor-led course
- Intermediate-level proficiency in Python
- Familiarity with AWS Cloud

Examens en certificering

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Vervolgcurssussen:

No recommendation

Cursusinhoud:

Day 1	Module 4: Using Amazon Bedrock APIs in Common Architectures	Module 7: Evaluating Generative AI Application Components
Module 1: Exploring Components of Generative AI Applications on AWS	■ Implementing architecture patterns with Amazon Bedrock APIs ■ Exploring common use cases ■ Adding conversational memory to extend context ■ Hands-on lab: Develop Conversation Patterns with Amazon Bedrock APIs	■ Evaluating application components ■ Evaluating model output ■ Evaluating RAG output ■ Optimizing latency and cost ■ Hands-on lab: Evaluating Retrieval Augmented Generation (RAG) Applications
Module 2: Programming with Amazon Bedrock	Day 2	Module 8: Implementing Responsible AI
■ Guiding model response generation ■ Using Amazon Bedrock programmatically ■ Hands-on lab: Develop with Amazon Bedrock APIs ■ Hands-on lab: Develop Streaming Patterns with Amazon Bedrock APIs	Module 5: Customizing Generative AI Responses with RAG	■ Understanding responsible AI ■ Mitigating bias and addressing prompt misuses ■ Using Amazon Bedrock Guardrails ■ Hands-on lab: Securing Generative AI Applications Using Bedrock Guardrails
Module 3: Applying Prompt Engineering for Developers	■ Implementing Retrieval Augmented Generation (RAG) ■ Using Amazon Bedrock Knowledge Bases ■ Hands-on lab: Develop Retrieval Augmented Generation (RAG) Applications with Amazon Bedrock Knowledge Base	Module 9: Using Tools and Agents in Generative AI Applications
■ Introducing prompt engineering ■ Introducing prompt techniques ■ Optimizing prompts for better result	Module 6: Integrating Open Source Frameworks with Amazon Bedrock	■ Using tools ■ Understanding AI agents ■ Understanding open source agentic frameworks ■ Understanding agent interoperability
	■ Invoking a foundation model in Amazon Bedrock using LangChain ■ Using LangChain for context-aware responses ■ Hands-on lab: Develop a Generative AI Application Pattern using Open Source Frameworks and Amazon Bedrock Knowledge Bases	Module 10: Developing Amazon Bedrock Agents
		■ Implementing Amazon Bedrock Flows ■ Designing Amazon Bedrock Agents ■ Developing Amazon Bedrock Inline Agents ■ Designing multi-agent collaboration ■ Using Amazon Bedrock AgentCore ■ Hands-on lab: Developing Amazon Bedrock Agents Integrated with Amazon Bedrock Knowledge Bases and Guardrails

Extra informatie:

Official course book provided to participants

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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