

Application Development with LLMs on Google Cloud

Cursusduur: 1 Dag Cursuscode: GO6592 Trainingsmethode: Virtual Learning

Beschrijving:

In this course, you'll dive into the details of using Large Language Models (LLMs) in your applications.

You'll start by exploring the core principles that underpin prompting LLMs. Next, you will focus on Google's latest family of models, Gemini. You'll explore the various Gemini models and their multimodal capabilities. This includes a deep dive into effective prompt design and engineering within the Vertex AI Studio environment. Then, the course moves to application development frameworks and how to implement these concepts into your applications.

- This course does have a deep dive on topics around developing agents using Agent Development Kit and deployment of agents on Google Cloud using solutions such as Agent Engine.

Updated June 2026

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 customers who want to use large language models (LLMs) in their applications, including working with prompt design, Vertex AI Studio, and application development frameworks on Google Cloud.

Doelstelling:

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| ■ After this course participants should be able to: | ■ Develop LLM-powered applications using generative AI |
| ■ Explore the different options available for using generative AI on Google Cloud. | ■ Apply advanced prompt engineering techniques to improve the output from LLMs |
| ■ Use Vertex AI Studio to test prompts for large language models. | ■ Build a multi-turn chat application using the Gemini API and LangChain |

Vereiste kennis en vaardigheden:

Completion of "Introduction to Developer Efficiency on Google Cloud" or equivalent knowledge.

Examens en certificering

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Vervolg cursussen:

None

Cursusinhoud:

Introduction to Generative AI on Google Cloud

- What is generative AI
- Vertex AI on Google Cloud
- Generative AI options on Google Cloud
- Introduction to course use case

Vertex AI Studio

- Introduction to Vertex AI Studio
- Designing and testing prompts
- Data governance in Vertex AI Studio
- Lab: Getting Started with the Vertex AI Studio User Interface

Generative AI Fundamentals

- Introduction to grounding
- Integrating the Vertex AI Gemini APIs
- Chat, memory and grounding
- Search principles
- Lab: Getting Started with LangChain + Vertex AI Gemini API

Prompt Engineering

- Review of few-shot prompting
- Chain-of-thought prompting and thinking budgets
- Meta prompting, multi-step, and panel prompts
- RAG and ReAct
- Lab: Advanced Prompt Architectures

Creating Custom Chat Applications with Vertex AI Gemini API

- LangChain for chatbots
- ADK for chatbots
- Chat retrieval
- Lab: Implementing RAG Using LangChain

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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