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## Application Development with LLMs on Google Cloud

**Varighed: 1 Day    Kursus Kode: GO6592    Leveringsmetode: Company event (Firmakursus)**

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### Beskrivelse:

**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*

Firmakursus

Med et firmakursus bliver jeres it-kompetenceudvikling målrettet jeres behov. Det betyder, at vi hjælper med at finde og sammensætte det helt rigtige kursusindhold og den helt rigtige form. Kurset kan afvikles hos os eller kunden, standard eller virtuelt.

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### Målgruppe:

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.

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### Agenda:

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| ■ <b>After this course participants should be able to:</b>                         | ■ 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       |
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### Forudsætninger:

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

### Test og certificering

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### Yderligere Kurser:

None

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## Indhold:

### 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

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## Additional Information:

Official course book provided to participants.

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## Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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