

Google Generative AI in Production

Cursusduur: 1 Dag Cursuscode: GO8338 Trainingsmethode: Virtual Learning

Beschrijving:

Traditional MLOps is a set of practices to productionize traditional ML systems for enterprise applications. Generative AI raises new challenges in managing and productionizing applications at scale. The field of generative AI operations seeks to address these new challenges.

In this course, you learn about the challenges that arise when deploying and productionizing generative AI-powered applications. You learn how to secure your generative AI-powered applications. Finally, you will discuss best practices for logging and monitoring your generative AI-powered applications in production.

Products:

- Vertex AI

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Virtueel en Klassikaal™

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Doelgroep:

Developers, DevOps engineers and machine learning engineers who wish to operationalize GenAI-based applications

Doelstelling:

■ After this course participants should be able to:

- Understand generative AI operations
- Compare traditional MLOps and GenAIOps
- Analyze the components of an LLM system
- Define and compare RAG and ReAct
- Evaluate application deployment options
- Deploy, package, and version apps

- Maintain and update LLM models
- Test and evaluate gen AI-powered apps
- Deploy CI/CD pipelines for gen AI-powered apps
- Identify security challenges for gen AI applications
- Understand prompt security issues
- Apply sensitive data protection and DLP API
- Implement Model Armor

Vereiste kennis en vaardigheden:

Completion of the "Application Development with LLMs on Google Cloud" or equivalent knowledge.

Examens en certificering

None

Vervolg cursussen:

None

Cursusinhoud:

Module 01: Introduction to Generative AI in Production

- Generative AI operations
- Traditional MLOps vs. GenAIOps
- Components of an LLM system
- RAG/ReAct architecture

Module 02: Generative AI Application Deployment

- Application deployment options
- Deployment, packaging, and versioning
- Lab: Deploying an Agentic Application on Cloud Run

Module 03: Productionizing Generative AI

- Maintenance and updates
- Testing and evaluation
- CI/CD pipelines for gen AI-powered apps
- Lab: Tracking Versions of Generative AI Applications

Module 04: Securing Generative AI Applications

- Security challenges
 - Prompt security
 - Sensitive Data Protection and DLP API
 - Model Armor
 - Lab: Securing Generative AI-Powered Applications
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Nadere informatie:

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

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