

## Google Develop Search and Agents with AI Applications

Cursusduur: 1 Dag    Cursuscode: GO8337

### Beschrijving:

In this course, you learn how to use Vertex AI Search and Conversational Agents to create search engines and chat applications.

You will learn how to leverage Vertex AI Search for grounding your gen AI-powered applications. You will then explore how to integrate these search engines and chat applications into your own applications. Finally, you learn how to use the agents built in AI Applications in multi agent workflows

#### Products:

- Gemini
- AI Applications
- Vertex AI

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### Doelgroep:

- Customers

### Doelstelling:

- |                                                                              |                                                                                 |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| ■ After this course participants should be able to:                          | ■ Use grounding options on Google Cloud.                                        |
| ■ Explore the options in Vertex AI for generative AI.                        | ■ Test grounding using the Vertex AI Studio and SDK.                            |
| ■ Identify the role of AI Applications: Search, Recommendations, and Agents. | ■ Create conversational agents.                                                 |
| ■ Examine use cases for Vertex AI Search and Agents.                         | ■ Manage conversations with playbooks.                                          |
| ■ Create enterprise-grade generative AI applications with AI Applications.   | ■ Use examples to improve a playbook's response.                                |
| ■ Choose the appropriate engine for a search or conversation app.            | ■ Leverage data store tools to perform grounding for your playbook's responses. |
| ■ Import data into a data store.                                             | ■ Explore the features and benefits of the Agent Development Kit (ADK).         |
| ■ Create and configure a custom search app.                                  | ■ Accelerate agent development with Agent Garden.                               |
| ■ Identify why grounding is important.                                       | ■ Use ADK to build multi-agent applications.                                    |
| ■ Leverage Retrieval-Augmented Generation (RAG).                             | ■ Leverage a Data Store tool from an ADK agent.                                 |

### Vereiste kennis en vaardigheden:

Knowledge of generative AI basic concepts and programming knowledge (Python)

### Examens en certificering

None

## Vervolg cursussen:

None

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## Cursusinhoud:

### Module 1: Vertex AI and AI Applications

- Vertex AI for generative AI
- AI Applications: Search, Recommendations, and Agents
- Use cases for Vertex AI Search and Agents

### Module 2: Vertex AI Search

- Basic concepts: apps, engines, and data stores
- Data sources and preparing data
- Creating a data store
- Configuring Vertex AI Search
- Deploy Vertex AI Search

### Module 3: Grounding Applications

- Why is grounding important?
- Retrieval Augmented Generation (RAG)
- Grounding options on Google Cloud
- Testing grounding in Vertex AI Studio
- Grounding using the Vertex AI SDK

### Module 4: Conversational Agents

- Customer Engagement Suite (CES)
- Deterministic vs. generative agents
- Playbooks
- Data store tools

### Module 5: Multi-agent Applications on Vertex AI

- Multi-agent applications and agentic AI
- Introduction to Agent Developer Kit (ADK)
- Vertex AI Agent Garden
- Vertex AI Agent Engine
- Putting it all together with AI 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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