

Vertex AI Agent Builder

7h

What you'll learn

- Explore Vertex AI as a platform for enterprise-ready generative AI.
- Create a search engine using Vertex AI Search.
- Create a chat application by using Vertex AI Conversation.
- Integrate Vertex AI Search and Conversation into your applications.
- Understand how to create and share sample apps and databases.
- Productionize search engines and chat applications created in Vertex AI Search and Conversation.

Target audience

Customers interested in learning how to use Vertex AI Search and Conversation and Vertex AI Agent Builder to create search engines and chat applications

Prerequisites

[Google Cloud Fundamentals: Core Infrastructure](#) or equivalent Google Cloud experience.

Course Outline

Module 01: Introduction to Vertex AI Search and Conversation

Topics

- Vertex AI
- Vertex AI Search and Conversation
- Example use cases

Objectives

- Explore Vertex AI as a platform for enterprise-ready generative AI.
- Describe example use cases of Vertex AI Search and Conversation.

Module 02: Vertex AI Search

Topics

- Apps, engines and data stores
- Data preparation
- Creating an custom search engine
- Configuration options

Objectives

- Understand the main concepts of apps, engines, and data stores.
- Create a search engine using Vertex AI Search.
- Configure and integrate custom search engines.

Activities

- Lab: Integrate Search in Applications Using Vertex AI Search

Module 03: Vertex AI Conversation

- Dialogflow CX basic concepts
- Creating a chat app
- Options deploying conversational agents

Objectives

- Understand the basic concepts of data store agents and Dialogflow CX.
- Create a chat application by using Vertex AI Conversation

Activities

- Lab: Create a Generative Chat App with Vertex AI Conversation

Module 04: Productionizing Vertex AI Search and Conversation

Topics

- Refreshing data and schemas
- Security and DLP
- Monitoring and logging
- Troubleshooting

Objectives

- Manage changing data and schemas in data stores.
- Explain security features of Vertex AI Search and Conversation.
- Use monitoring and logging for Vertex AI Search and Conversation apps.
- Troubleshoot Vertex AI Search and Conversation applications.

Activities

- Lab: Maintaining Search Engines using Vertex AI Search