

Course : Develop Search and Agents Using AI Applications

Official Course: Preparation for Google Cloud Certification Exams

Practical course - 1d - 7h00 - Ref. GDX

Price : 990 € E.T.

NEW

In this course, you'll learn how to use Vertex AI Search and Conversational Agents to build search engines and conversational applications based on generative AI. You'll also learn how to integrate these solutions into your applications and use multi-agent workflows.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Explore Vertex AI as an enterprise-ready generative AI platform.
- ✓ Create and deploy a search engine using Vertex AI Search.
- ✓ Anchor responses from foundational models using Vertex AI Search.
- ✓ Create a natural language conversational application using Conversational Agents.
- ✓ Integrate agents into multi-agent workflows using the Agent Development Kit and Vertex AI Agent Builder.

Intended audience

Developers, AI engineers, and cloud architects who want to build generative AI applications, intelligent search engines, and conversational agents using Google Cloud.

Prerequisites

Knowledge of the basic concepts of generative AI and proficiency in Python programming. Good written English skills.

Practical details

Teaching methods

The training session will be conducted in French. The official course materials are in English.

Course schedule

PARTICIPANTS

Developers, AI engineers, and cloud architects who want to build generative AI applications, intelligent search engines, and conversational agents using Google Cloud.

PREREQUISITES

Knowledge of the basic concepts of generative AI and proficiency in Python programming. Good written English skills.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

1 Introduction to AI Applications and Vertex AI

- Learn about Vertex AI and generative AI applications.
- Understand the concepts of augmented search and AI agents.
- Explore the uses of conversational apps and intelligent search engines.
- Set up the development environment and Google Cloud services.

2 Building Search Engines with Vertex AI Search

- Create and configure a search engine with Vertex AI Search.
- Index and analyze data sources.
- Use Vertex AI Search to anchor the responses from generative models.
- Test and optimize the relevance of the results.

3 Development of conversational applications and AI agents

- Create a conversational app with Conversational Agents.
- Designing natural language interactions.
- Manage conversational intentions, responses, and contexts.
- Integrating AI agents into business applications.

4 Multi-agent workflows and advanced integration

- Learn about multi-agent architectures.
- Use the Agent Development Kit and Vertex AI Agent Builder.
- Orchestrate multi-agent workflows.
- Deploy and integrate AI agents into cloud applications.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

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Dates and locations

REMOTE CLASS

2027 : 25 Mar., 20 May, 24 June, 8 Sep., 17 Nov., 15 Dec.

LYON

2027 : 25 Mar., 24 June, 8 Sep., 17 Nov.

LILLE

2027 : 25 Mar., 24 June, 8 Sep., 15 Dec.

STRASBOURG

2027 : 25 Mar., 24 June, 8 Sep., 17 Nov.

BRUXELLES

2027 : 25 Mar., 24 June, 8 Sep., 15 Dec.

PARIS LA DÉFENSE

2027 : 25 Mar., 20 May, 24 June, 8 Sep., 17 Nov., 15 Dec.

AIX-EN-PROVENCE

2027 : 25 Mar., 24 June, 8 Sep., 17 Nov.

NANTES

2027 : 25 Mar., 24 June, 8 Sep., 15 Dec.

TOULOUSE

2027 : 25 Mar., 24 June, 8 Sep., 17 Nov.

GENÈVE

2027 : 25 Mar., 24 June, 8 Sep., 15 Dec.

LUXEMBOURG

2027 : 25 Mar., 24 June, 8 Sep., 17 Nov.