

Course : Application Development with LLMs on Google Cloud

Official Course: Preparation for Google Cloud Certifications

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

Price : 990 € E.T.

NEW

In this course, you'll learn how to integrate LLMs into your applications on Google Cloud, use Vertex AI Studio for prompt engineering, develop with LangChain, and build a multi-turn chatbot using the Gemini API.

Teaching objectives

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

- ✓ Explore the various options for using generative AI on Google Cloud.
- ✓ Use Vertex AI Studio to test prompts with large language models (LLMs).
- ✓ Develop applications using LangChain and Vertex AI models.
- ✓ Apply prompt engineering techniques to improve results.
- ✓ Create a multi-round chat app using the Gemini API and LangChain.

Intended audience

Developers and technical professionals who want to build applications using LLMs on Google Cloud.

Prerequisites

Have completed the "Introduction to Developer Efficiency on Google Cloud" course or have equivalent knowledge.

Practical details

Teaching methods

The training session will be conducted in French. Official course materials are available in English and in digital format.

Course schedule

PARTICIPANTS

Developers and technical professionals who want to build applications using LLMs on Google Cloud.

PREREQUISITES

Have completed the "Introduction to Developer Efficiency on Google Cloud" course or have equivalent knowledge.

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 Generative AI on Google Cloud

- Introduction to Vertex AI
- Generative AI options on Google Cloud.
- Introduction to the course's use case.

2 Vertex AI Studio and prompt engineering

- Getting Started with Vertex AI Studio.
- Available models and use cases.
- Design and testing of prompts.
- Data Governance and Security.
- Prompt engineering techniques (few-shot, chain-of-thought, RAG, ReAct).

3 Development with LangChain and LLMs

- Introduction to LangChain.
- Concepts and Components
- Integration with the Gemini API (Vertex AI).
- Question-and-answer threads.
- Application Development with LLM.

4 Advanced Conversational Applications

- Creating chatbots with LangChain.
- Memory Management (multi-pass).
- Integration of retrieval (RAG).
- Development of a full-featured chat application.

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

2026 : 18 Dec.

2027 : 19 Mar., 14 May, 18 June, 2 Sep., 4 Nov., 3 Dec.

LYON

2027 : 19 Mar., 18 June, 2 Sep., 3 Dec.

PARIS LA DÉFENSE

2026 : 11 Dec.

2027 : 19 Mar., 14 May, 18 June, 2 Sep., 4 Nov., 3 Dec.

NANTES

2027 : 19 Mar., 18 June, 2 Sep., 3 Dec.