

Course : Implement machine learning and generative AI solutions (Microsoft AI-300)

Official AI-300 Course: Exam Preparation

Practical course - 4d - 28h00 - Ref. OML

Price : 2730 € E.T.

NEW

In this course, you'll learn how to design, deploy, and operate MLOps and GenAIOps solutions on Azure by building a secure and scalable AI infrastructure and managing the lifecycle of generative AI models and applications using automation, CI/CD, IaC, and monitoring.

Teaching objectives

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

- ✓ Designing an MLOps Architecture on Azure
- ✓ Manage the Lifecycle of ML Models
- ✓ Deploying and Operating Generative AI Applications
- ✓ Implement CI/CD and automation
- ✓ Monitor and optimize AI systems in production

Intended audience

Data scientists, ML engineers, and DevOps professionals who want to deploy AI solutions on Azure and have a background in Python, ML, and CI/CD.

Prerequisites

Python, basic machine learning skills, and an understanding of DevOps (Git, CI/CD, command line). Good written English skills.

Practical details

Teaching methods

The training is conducted in French. Official course materials are available in digital format and in English.

Course schedule

PARTICIPANTS

Data scientists, ML engineers, and DevOps professionals who want to deploy AI solutions on Azure and have a background in Python, ML, and CI/CD.

PREREQUISITES

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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.

1 Deploying Machine Learning Models (MLOps)

- Experiment with Azure Machine Learning.
- Tune hyperparameters using Azure Machine Learning.
- Run pipelines in Azure Machine Learning.
- Trigger Azure Machine Learning jobs with GitHub Actions.
- Trigger GitHub Actions with feature-based development.
- Using environments in GitHub Actions.
- Deploy a model using GitHub Actions.

Hands-on work

Find the best model with AutoML, run hyperparameter tuning, create and run an ML pipeline, automate with GitHub Actions, and deploy a model with the Azure ML CLI.

2 Operationalizing Generative AI Applications (GenAIOps)

- Planning and Preparing a GenAIOps Solution
- Manage prompts for agents in Microsoft Foundry with GitHub
- Evaluating and Optimizing AI Agents Through Structured Experiments
- Automate AI evaluations with Microsoft Foundry and GitHub Actions
- Monitor Your Generative AI Application
- Analyze and Debug Your Generative AI Application Using Tracing

Hands-on work

Plan a GenAIOps solution, manage prompts with GitHub, evaluate and optimize AI agents, automate evaluations, monitor an application, and analyze and debug using tracing.

Options

Certification : 200 € H.T.

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.

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 : 15 Dec.

2027 : 23 Mar., 18 May, 31 Aug., 2 Nov.

PARIS LA DÉFENSE

2026 : 8 Dec.

2027 : 23 Mar., 18 May, 31 Aug., 2 Nov.