Training: Microsoft

AI-300T00: Operationalize machine learning and generative AI solutions

Microsoft Partner

TRAINING GOALS:

This course prepares learners to design, implement, and operate Machine Learning Operations (MLOps) and Generative AI Operations (GenAIOps) solutions on Azure. It covers building secure and scalable AI infrastructure, managing the full lifecycle of traditional machine learning models with Azure Machine Learning, and deploying, evaluating, monitoring, and optimizing generative AI applications and agents using Microsoft Foundry.

Audience Profile:
This course is intended for data scientists, machine learning engineers, and DevOps professionals who want to design and operate production-grade AI solutions on Azure.

Skills earned upon completion:
- Implement end-to-end machine learning operations (MLOps) with Azure Machine Learning

CONSPECT:

- Operationalize machine learning models (MLOps)
  - Module 1: Experiment with Azure Machine Learning
  - Module 2: Perform hyperparameter tuning with Azure Machine Learning
  - Module 3: Run pipelines in Azure Machine Learning
  - Module 4: Trigger Azure Machine Learning jobs with GitHub Actions
  - Module 5: Trigger GitHub Actions with feature-based development
  - Module 6: Work with environments in GitHub Actions
  - Module 7: Deploy a model with GitHub Actions
- Operationalize generative AI applications (GenAIOps)
  - Module 1: Plan and prepare a GenAIOps solution
  - Module 2: Manage prompts for agents in Microsoft Foundry with GitHub
  - Module 3: Evaluate and optimize AI agents through structured experiments
  - Module 4: Automate AI evaluations with Microsoft Foundry and GitHub Actions
  - Module 5: Monitor your generative AI application

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- Module 6: Analyze and debug your generative AI app with tracing

REQUIREMENTS:

No prerequisites specified at the course level. Individual LPs suggest: programming experience with Python or R, experience developing and training ML models, familiarity with fundamental generative AI concepts.

Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by Microsoft (course completion).

This course will help prepare you for the **Microsoft Certified: Machine Learning Operations Engineer Associate** certification, which is available through the Pearson VUE test centers.

TRAINER:

Microsoft Certified Trainer (MCT)

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