# Operationalize machine learning and generative AI solutions Training

Duration: **4 Day**

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This course prepares learners to operationalise machine learning and generative ai solutions using microsoft azure, aligned to the requirements of the ai-300 exam. It focuses on building robust, scalable, and secure ai systems in production environments, combining machine learning operations and generative ai operations into a unified aiops approach.

Learners will gain the practical skills needed to deploy, monitor, govern, and optimise both traditional machine learning models and generative ai applications. The course emphasises real-world operational workflows, enabling organisations to transition from experimentation to enterprise-scale ai delivery with confidence.

## Prerequisites

Learners should have:

- experience with python programming
- working knowledge of azure machine learning
- experience deploying and maintaining machine learning models
- familiarity with generative ai development concepts and tools such as microsoft foundry
- understanding of devops practices including source control and ci/cd
- experience with tools such as github actions and command-line interfaces

### Tareget audience

This course is designed for professionals responsible for deploying and managing ai systems in production environments, including:

- ai engineers
- machine learning engineers
- data scientists with operational responsibilities
- devops and platform engineers supporting ai workloads

## What You Will Learn

By the end of this course, learners will be able to:

- design and implement mlops and genaiops workflows on azure
- deploy and manage machine learning models in production environments
- operationalise generative ai applications and agents
- implement monitoring, observability, and governance for ai systems
- optimise performance, cost, and reliability of ai solutions
- apply security and compliance best practices across the ai lifecycle