

Google Vertex AI for Machine Learning Practitioners

Duration: 1 Day **Course Code: GO9091**

Overview:

Learn how to build, deploy, and manage machine learning models using Google Vertex AI.

This practical, hands-on course will provide you with a deep dive into the core functionalities of Vertex AI, enabling you to effectively leverage its tools and capabilities for your ML projects.

Updated 11/3/2026

Target Audience:

- Machine Learning Engineers, Data Scientists

Objectives:

- **By the end of the course, learners will be able to:**
 - Understand the key components of Vertex AI and how they work together to support ML workflows.
 - Configure and launch Vertex AI Custom Training and Hyperparameter Tuning jobs to optimize model performance.
 - Organize and version models using Vertex AI Model Registry for easy access and tracking.
 - Configure serving clusters and deploy models for online predictions with Vertex AI Endpoints.
 - Operationalize and orchestrate end-to-end ML workflows with Vertex AI Pipelines for increased efficiency and scalability.
 - Configure and set up monitoring on deployed models.
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Prerequisites:

- Experience building and training custom ML models. Familiar with Docker.

Testing and Certification

None

Follow-on-Courses:

None recommended

Content:

Module 1: Training, Tuning, and Deploying Models on Vertex AI

- Understand Containerized Training Applications
- Understand Vertex AI Custom Training and Tuning Jobs
- Understand how to track and version your trained models in the Vertex AI Model Registry
- Understand Online Deployment with Vertex AI Endpoints

Module 2: Orchestrating End-to-End Workflows with Vertex AI Pipelines

- Understand Kubeflow
- Understand pre-built and lightweight Python components
- Understand how to compile and execute pipelines on Vertex AI

Module 3: Model Monitoring on Vertex AI

- Understand Feature Drift and Skew
- Understand Model Monitoring for models deployed to Vertex AI Endpoints

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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