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.

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 Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK