Google Vertex AI for Machine Learning Practitioners

Duration: 1 Day **Course Code: GO9091** **Delivery Method: Virtual Learning**

Overview:

This instructor-led, one-day course is designed for engineers and data scientists familiar with machine learning models who want to become proficient in using Vertex AI for custom model workflows. 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*

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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 00 971 4 446 4987

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