Vertex AI for Machine Learning Practitioners

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Key information

Course title	Vertex AI for Machine Learning Practitioners
Description	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.
What you'll learn	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 your ML workflows. ● Configure and launch Vertex AI Custom Training and Hyperparameter Tuning Jobs to optimize model performance. ● Organize and version your 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
Duration	1 day
Level	Intermediate
Format	Instructor led

Content overview

Who this course is for	Machine Learning Engineers, Data Scientists
Total modules	3 lectures, 5 hands-on labs
Prerequisites	Experience building and training custom ML models. Familiar with Docker.

Content breakdown

Module 1 title	Training, Tuning, and Deploying Models on Vertex AI
Module 1 objectives	Understand Containerized Training Applications Understand Vertex AI Custom Training and Tuning Jobs Understand how to track and version your trained models in Vertex AI Model Registry Understand Online Deployment with Vertex AI Endpoints
Module 2 title	Orchestrating end-to-end Workflows with Vertex AI Pipelines
Module 2 objectives	Understand Kubeflow Understand pre-built and lightweight Python components Understand how to compile and execute pipelines on Vertex AI
Module 3 title	Model Monitoring on Vertex AI
Module 3 objectives	Understand Feature Drift and Skew Understand Model Monitoring for models deployed to Vertex AI Endpoints

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