Vertex AI for Machine Learning Practitioners Training

Duration: **1 Day**

BILGINÇ IT Academy
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This instructor-led one-day course is designed for engineers and data scientists familiar with machine learning models who want to become procient in using Vertex AI for custom model workows.

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.

Who Should Attend?

Machine Learning Engineers, Data Scientists

Prerequisites

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

What You Will 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 workows.
- Congure 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.
- Congure serving clusters and deploy models for online predictions with Vertex AI Endpoints.
- Operationalize and orchestrate end-to-end ML workows with Vertex AI Pipelines for increased eciency and scalability.
- Configure and set up monitoring on deployed models

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Training Outline

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 Vertex AI Model Registry
- Understand Online Deployment with Vertex AI Endpoints

Module 2:Orchestrating end-to-end Workows with Vertex AI Pipelines

- Understand Kubeow
- 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