Vertex AI for Machine Learning Practitioners

Category: AI, Data & Analytics | **Vendor:** Google Cloud

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course 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.

About This Course

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.

Who Should Attend

Machine Learning Engineers, Data Scientists

Prerequisites & Entry Requirements

General Prerequisites:

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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

Detailed Course 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 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, Training, and Deploying Models on Vertex AI, Orchestrating end-to-end Workflows with Vertex AI Pipelines, Model Monitoring on Vertex AI

Skills 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 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.
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Frequently Asked Questions

Q: What delivery options are available for Vertex AI for Machine Learning Practitioners?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Vertex AI for Machine Learning Practitioners course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Vertex AI for Machine Learning Practitioners training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Vertex AI for Machine Learning Practitioners?

Yes, we provide corporate training, dedicated training, and closed classes for Vertex AI for Machine Learning Practitioners. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Vertex AI for Machine Learning Practitioners, AI & Data Science, VAIMLP, Google Cloud, vILT

Q: Why choose Nexus Human for Vertex AI for Machine Learning Practitioners?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Vertex AI for Machine Learning Practitioners training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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