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Kubeflow End User Training
Course ID: ECSFLTEUT

Course Time:
2 Days

Course Description

With its beginnings at Google, Kubeflow has become one of the most visible open sourced projects relevant to helping make Machine Learning (ML) workflows deployable on Kubernetes. In this two-day course we will examine basic Kubeflow concepts, Machine Learning workflow lifecycles, tooling, and various ML frameworks. Our focus will be on how to use Kubelflow to take Machine Learning models to production in a scalable and portable way.

Learning Objectives

At the end of the training course, the customer data scientists should be able to;

+   Access the Kubeflow environment
+   Train models
+   Deploy models for client inferencing

Who Should Attend

+   Data Scientists

Prerequisites

+   Familiarity with Container Concepts

Class Delivery Format

+   This is a two-day lecture series to be delivered onsite at the customer's offices.
+   This course will be in the format of lecture by the teacher and demos on the main overhead projected. No hands-on labs will be included.

Kubeflow End User Training
(2 Days)

Course Content

Day 1 - Morning
- Introduction to Kubeflow Concepts
    + What is Kubernetes?
    + Minikube
    + Technology Component Overview
- Machine Learning Workflow Lifecycles
- Overview of Containers
- Overview of Notebooks

Day 1 – Afternoon
- Tools and Platforms
    + Major Deep Learning Libraries
    + Public cloud options
    + Hardware / GPUs
- Accessing Kubeflow Environment
    + Install locally
    + Using GCloud and GKE
- Working with JupyterHub
    + Components
    + Leveraging Notebooks
- Running TensorFlow jobs on Kubeflow
    + Daemons
    + Dashboard

Day 2 – Morning
- Scheduling Resources
- Containers
    + Pulling Containers
    + Running Containers
    + Modifying and pushing containers to Git
- Working with different ML Frameworks on Kubeflow
- Working with storage

Day 2 – Afternoon
- Loading and Saving Models
- Sending a Model to TensorFlow Serving
- Building a client to make inferences from TensorFlow Serving

To register for an ePlus cloud training course, contact us today.

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