

Machine Learning in the Enterprise

Readings and Videos

Module 1: Understanding the Machine Learning Enterprise Workflow

[ML Workflow](#)

[The Seven Steps of Machine Learning](#)

[Basics of Data Science Product Management: The ML Workflow](#)

[Building ML Workflows using Cloud Composer](#)

[The Machine Learning Workflow](#)

Module 2: Data in the Enterprise

[Data Collection and Evaluation](#)

[Google Cloud Data Catalog essentials: Data Discovery](#)

[Google Cloud Data Catalog hands-on guide: a mental model](#)

[Data Catalog](#)

[Google Cloud Data Analytics 2021: The year in review](#)

[Cloud Dataprep Tutorial - Getting Started 101](#)

[Advanced Data Cleanup Techniques using Cloud Dataprep \(Cloud Next '19\)](#)

[Google Cloud Data Analytics Services \(BigQuery, Dataprep, Looker, Dataplex, Analytics Hub\)](#)

[Analytics Hub](#)

[Analytics Hub in a Minute](#)

[Dataplex](#)

[Breaking data silos with Dataplex](#)

[Building a Modern Digital Enterprise with Google Cloud Data Fusion](#)

[Introduction to Vertex AI Feature Store](#)

[Vertex AI Feature Store](#)

Module 3: The Science of Machine Learning and Custom Training

[Intuitions on L1 and L2 Regularisation](#)

[Regularization for Sparsity: L1 Regularization](#)

[Regularization for Sparsity](#)

[Understanding Logistic Regression](#)

[Logistic Regression](#)

[A Gentle Introduction to Cross-Entropy for Machine Learning](#)

[Create a model using custom training](#)

[Create a custom training job in Vertex AI](#)

[Build a Custom Model with Vertex AI Platform](#)

Module 4: Vertex Vizier Hyperparameter Tuning

[Vertex Vizier Hyperparameter Tuning](#)

[Overview of Hyperparameter Tuning](#)

[Hyperparameter Tuning on Vertex AI](#)

[Hyper-parameter optimization algorithms: a short review](#)

[Hyperparameter Tuning](#)

Module 5: Prediction and Model Monitoring using Vertex AI

[Vertex AI Model Monitoring](#)

[Building ML pipelines with Google Cloud's Vertex AI: On-Demand Webinar | Watch On-Demand](#)

[Monitor Models For Training-Serving Skew With Vertex AI](#)

[Vertex AI Model Monitoring Colab](#)

[Managing ML Lifecycles with Vertex AI](#)

[Monitoring feature attributions: How Google saved one of the largest ML services in trouble](#)

Module 6: Vertex AI Pipelines

[Vertex AI Pipelines Use Case](#)

[Building a Vertex AI Pipeline](#)

[Introduction to MLOps and Vertex AI Pipelines](#)

[Simple TFX Pipeline for Vertex AI Pipeline](#)

[Vertex AI Training and Serving with TFX and Vertex Pipelines](#)

Module 7: Best Practices for Machine Learning Development

[Best Practices for Implementing Machine Learning on Google Cloud](#)

[People + AI Guidebook](#)

[Rules of Machine Learning](#)

[Machine Learning Crash Course](#)