



End-to-End Machine Learning with TensorFlow on GCP

COURSE OVERVIEW



Course Modality

Classroom
+ hands-on labs



Course Time

13 days



Course Level

Advanced



Course Language

English

In the first course of this specialization, we will recap what was covered in the Machine Learning with TensorFlow on Google Cloud Platform Specialization (<https://www.coursera.org/specializations/machine-learning-tensorflow-gcp>). One of the best ways to review something is to work with the concepts and technologies that you have learned. So, this course is set up as a workshop and in this workshop, you will do End-to-End Machine Learning with TensorFlow on Google Cloud Platform

Prerequisites:

- ✓ Basic SQL, familiarity with Python and TensorFlow

COURSE CURRICULUM

Module 1:

Welcome to the Course

We'll give you an overview of this course and reveal the upcoming Advanced Machine Learning with TensorFlow on GCP specialization.

Module 2:

Machine Learning (ML) on Google Cloud Platform (GCP)

This module reviews the steps of deploying machine learning in a production environment

Module 3:

Explore the Data

This module explores a large dataset using Datalab and BigQuery.

Module 4:

Create the dataset

This module shows how to use Pandas in Datalab and sample a dataset for local development.

Module 5:

Build the Model

This module lets you develop a machine learning model in TensorFlow.

Module 6:

Operationalize the model

This module explains how to preprocess data at scale for machine learning and lets you train a machine learning model at scale on Cloud AI Platform.

Module 7:

Summary

This module reviews what you've learned in this course.

RECOMMENDED EXAMS



Professional Machine Learning EngineerBETA

A Professional Machine Learning Engineer designs, builds, and productionizes ML models to solve business challenges using Google Cloud technologies and knowledge of proven ML models and techniques. The ML Engineer is proficient in all aspects of model architecture, data pipeline interaction, and metrics interpretation and needs familiarity with application development, infrastructure management, data engineering, and security.