

Machine Learning on Google Cloud

Code:	GCP-ML
Length:	5 days
URL:	View Online

What is machine learning, and what kinds of problems can it solve? What are the five phases of converting a candidate use case to be driven by machine learning, and why is it important that the phases not be skipped? Why are neural networks so popular now? How can you set up a supervised learning problem and find a good, generalizable solution using gradient descent and a thoughtful way of creating datasets? Learn how to write distributed machine learning models that scale in TensorFlow, scale out the training of those models, and offer high-performance predictions. Convert raw data to features in a way that allows ML to learn important characteristics from the data and bring human insight to bear on the problem. Finally, learn how to incorporate the right mix of parameters that yields accurate, generalized models and knowledge of the theory to solve specific types of ML problems. You will experiment with end-to-end ML, starting from building an ML-focused strategy and progressing into model training, optimization, and productionalization with hands-on labs using Google Cloud.

Skills Gained

This series of courses teaches participants the following skills:

- Frame a business use case as a machine learning problem
- Create machine learning datasets that are capable of achieving generalization
- Implement machine learning models using TensorFlow
- Understand the impact of gradient descent parameters on accuracy, training speed, sparsity, and generalization
- Build and operationalize distributed TensorFlow models
- Represent and transform features

Who Can Benefit

This class is intended for the following participants:

- Data Engineers and programmers interested in learning how to apply machine learning in practice.
- Anyone interested in learning how to build and operationalize TensorFlow models.

Prerequisites

To get the most out of this specialization, participants should have:

- Experience coding in Python

- Knowledge of basic statistics
 - Knowledge of SQL and cloud computing (helpful)
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