



Serverless Machine Learning with Cloud ML

Welcome to Serverless Machine Learning with Cloud ML

Introductions

Your instructor + You

Background

Position

Organization



Introductions:

- Your instructor + You
- Background
- Position
- Organization

Facilities



Parking



Facilities



Food



Facilities:

- Parking
- Facilities
- Food

Course etiquette



Recording
this class
is prohibited.



Please silence your
phone and take
calls outside.



Ask questions
interactively
or via chat (online).



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Audience and prerequisites

Target Audiences

experienced developers who are responsible for managing big data transformations, including:

- Creating and maintaining machine learning and statistical models
- Querying datasets, visualizing query results and creating reports

Prerequisites

- Completed [Google Cloud Fundamentals: Big Data & Machine Learning course](#) OR have equivalent experience
- Basic proficiency with common query language such as SQL
- Experience with data modeling, extract, transform, load activities
- Developing applications using a common programming language such as Python
- Familiarity with Machine Learning and/or statistics



Learn how to

Identify use cases for Machine Learning

Build an ML model using TensorFlow

Build scalable, deployable ML models using Cloud ML

Express the importance of preprocessing and combining features

Apply advanced ML concepts into your models



Serverless Machine Learning with Cloud ML

Module	Labs
1 Getting started with Machine Learning	<ul style="list-style-type: none">• Explore dataset, create ML datasets, create benchmark
2 Building Machine Learning models with TensorFlow	<ul style="list-style-type: none">• Getting Started with TensorFlow• Machine Learning using tf.estimator• Refactoring to add batching• Distributed training and monitoring
3 Scaling TF models with Cloud ML Engine	<ul style="list-style-type: none">• Scaling up ML using Cloud ML Engine
4 Improving ML through feature engineering	<ul style="list-style-type: none">• Feature Engineering



Lab Environment



For each lab, Qwiklabs offers:

- A free set of resources for a fixed amount of time
- A clean environment with permissions



This course includes interactive hands-on labs through the Qwiklabs platform.

Qwiklabs provisions you with Google account credentials, so you can access the GCP Console for each lab at no cost. Specifically, for each lab, Qwiklabs offers:

- A free set of resources for a fixed amount of time
- A clean environment with permissions

Open Qwiklabs

1

Open an incognito window
(or private/anonymous window)

2

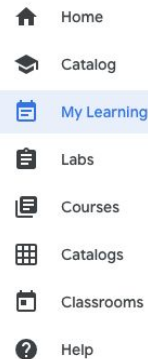
Go to events.qwiklabs.com

3

Sign In with existing account or **Join** with
new account (with email you used to
register for the bootcamp)

4

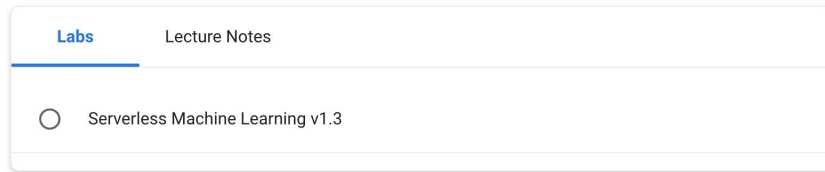
Launch the course from **My Learning**



Let's go ahead and open Qwiklabs:

1. **Open an incognito window** (or private/anonymous window). Use of an incognito browser window reduces the risk that you will accidentally do the labs using your own GCP account rather than Qwiklabs'.
2. **Go** to events.qwiklabs.com.
3. **Sign In** with existing account or **Join** with new account (with email you used to register for the bootcamp).
4. Launch the course from **My Learning**.

View your labs



Do NOT launch a lab until instructed to do so!



After you launch the course, you can view your labs. The lab list will indicate if a lab is:

- Completed (by you)
- Active
- Or not yet available

Your instructor will let you know when it's time to launch a lab. Once you start a lab, you won't be able to pause and restart it, so you'll need a continuous block of time to complete the work.

View lecture notes

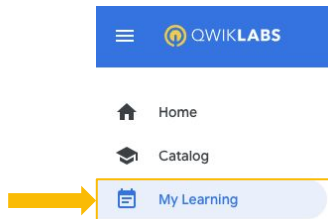
Labs	Lecture Notes
00 Welcome to Serverless Machine Learning with Cloud ML	
01 Serverless Machine Learning with Cloud ML_GettingStartedWithML (ML) v1.4.pdf	
02 Serverless Machine Learning with Cloud ML_TensorFlow (ML) v1.4	
03 Serverless Machine Learning with Cloud ML_CloudML (ML) v1.4	
04 Serverless Machine Learning with Cloud ML_FeatureEngineering (ML) v1.4	



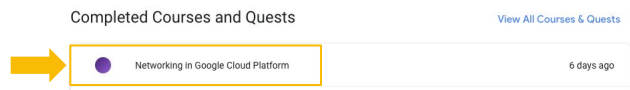
Within the course, you can also view the lecture notes. You can download these as PDF files.

End of class - Materials

- 1 Click on **My Learning** in the left-hand navigation bar



- 2 Select the class from the **Completed Courses** list



Materials are available for 2 years



You can view the course materials within Qwiklabs as follows:

1. Click on **My Learning** in the left-hand navigation bar.
2. Select the class from the **Completed Courses** list.

Materials are available for 2 years following the completion of a course.

How to claim your offer

1 month free on Google Cloud Specializations on Coursera



1

Go to www.coursera.org/promo/MLBootcamp

2

Click on



3

Complete checkout. A credit card is required for checkout, but will not be charged for the first month and the subscription can be canceled any time.

* Terms of promotion: 100% off your first month on select Google Cloud Specializations on Coursera. Limit one use per user. Valid until December 31, 2019. While supplies last.