



Google Cloud Academy

Professional Machine Learning Engineer Certification

Links and Notes:

Exam Readiness Workshop links:

- **PMLE: Certification Course: Professional Machine Learning Engineer (End to End Course)**
 - https://partner.cloudskillsboost.google/course_templates/237
- **(Beginner) Google Cloud Big Data and Machine Learning Fundamentals:**
 - https://partner.cloudskillsboost.google/course_templates/3
- **Google Cloud Skills Boost for Partners - can search for courses and hands-on labs:**
 - <https://partner.cloudskillsboost.google/>
- **Need help accessing Cloud Skills Boost? Email:**
 - Use this form to request access:
<https://inthecloud.withgoogle.com/partner-training/request-training-resources.html>
 - Or contact via this email: partner-training@google.com
- **Partner Advantage portal**
 - <https://www.partneradvantage.goog/GCPPRM/s/>
- **VertexAI Videos:**
 - https://www.youtube.com/playlist?list=PLlivdWyY5sqJ1YuMdGjRwJ3fFYZ_vWQ62
- **Google Cloud Sketchnotes/Blogs/Youtube videos**
 - <https://github.com/priyankavergadia/GCPSketchnote>
- **Priyanka Vergadia (Developer Advocate at Google) twitter post - Need help picking your container platform:**
 - <https://mobile.twitter.com/pvergadia/status/1392555417553747968/photo/1>

- **Need assistance?**
 - Problems with accessing Cloud Skills Boost for Partners
 - partner-training@google.com
 - Problems with a lab (locked out, etc.)
 - support@qwiklab.com
 - Problems with accessing Partner Advantage
 - <https://support.google.com/googlecloud/topic/9198654#zippy=%2Ccontact-support>
- **Kryterion support**
 - Kryterion support website
 - <https://kryterion.force.com/support/s/contactsupport>
 - Kryterion email:
 - support@kryteriononline.com

Module	Hands-on labs
<div>1</div> Streaming Data in Google Cloud with Pub/Sub and Dataflow	<ul style="list-style-type: none"> ● A Tour of Google Cloud Hands-on Labs: ● https://partner.cloudskillsboost.google/catalog_lab/1281 ● Full Course Certification Path: ● https://partner.cloudskillsboost.google/course_templates/237 : ● [LAB]:https://partner.cloudskillsboost.google/course_templates/3 ● Section Data Engineering for Streaming Data ● [LAB]:Serverless Data Processing with Dataflow - Using Dataflow for Streaming Analytics (Python) ● https://partner.cloudskillsboost.google/catalog_lab/3607

2	How Google Does Machine Learning	<p>How Google Does Machine Learning:</p> <ul style="list-style-type: none"> • [LAB]: https://partner.cloudskillsboost.google/course_templates/10 <p>Launching into machine learning:</p> <ul style="list-style-type: none"> • [Course]: https://partner.cloudskillsboost.google/course_templates/8
3	Basics of ML Machine learning Basics: Algorithms: Part1	<p>Introduction to Linear Regression:</p> <ul style="list-style-type: none"> • [LAB]: https://partner.cloudskillsboost.google/course_sessions/2664667/labs/357103 • Linear Regression 101: https://towardsdatascience.com/linear-regression-101-2fe898297b3 • What is linear regression: • https://medium.com/@ugursavci/machine-learning-101-linear-regression-949b7faaebe0 <p>Getting started with the built-in linear learner algorithm:</p> <ul style="list-style-type: none"> • https://cloud.google.com/ai-platform/training/docs/algorithms/linear-start <p>Introduction to Logistic Regression:</p> <p>[LAB]: Basic Introduction to Logistic Regression:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/catalog_lab/2876
4	Basics of ML Machine learning Basics: Model Metrics: Part2	<p>[LAB]: Introduction to Logistic Regression:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/catalog_lab/2876 <p>Building an using a classification model:</p> <p>https://cloud.google.com/bigquery-ml/docs/logistic-regression-prediction</p> <p>ML Glossary:</p> <p>https://developers.google.com/machine-learning/glossary</p>

5	Feature Engineering & BigQueryML:	<p>[Course]: Feature Engineering:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_templates/11 <p>Getting Started with BigQuery Machine Learning:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/courses/14821?parent=catalog <p>Machine Learning with BigQuery ML:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/catalog_lab/1000
6	MLOPS: ML Pipelines on GCP	<p>[Course]: MLOps (Machine Learning Operations) Fundamentals:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_templates/158 <p>[Course]: ML Pipelines on Google Cloud:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_templates/191 <p>[LAB]: Continuous Training Pipelines with Cloud Composer:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_sessions/2567810/labs/103985 <p>[LAB] TFX Standard Component Walkthrough:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_sessions/2567810/labs/103958 : <p>TFX on Cloud AI Platform Pipelines:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_sessions/2567810/labs/103963
7	MLOps with VertexAI	<p>[Course] Build and Deploy Machine Learning Solutions on VertexAI:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/quests/183 <p>[LAB] VertexAI Workbench Notebook: Qwik Start:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/course_templates/158 <p>[LAB] MLOps with VertexAI:</p> <ul style="list-style-type: none"> • https://partner.cloudskillsboost.google/catalog_lab/1000

		talog_lab/1310
8	TensorFlow	[Course] TensorFlow on Google Cloud: https://partner.cloudskillsboost.google/quests/83 [LAB] Machine Learning with TensorFlow in VertexAI: https://partner.cloudskillsboost.google/catalog_lab/1309

Instructor's Personal Resources

ML Cheat Sheet for Developing ML Solutions Using Google Frameworks:

[Link here](#)

ML Glossary of Terms:

https://drive.google.com/drive/u/0/folders/1yhuLGDeYGdES_Es3NFm7oxxzegitK1Ek

Lab Environment(s):



For each lab, Qwiklabs offers:

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



Partner CloudSkillsBoost:

<https://partner.cloudskillsboost.google/>

Access Issues and requests:

Any Attendees that are having issues with logging into labs they can be requested via this link:

<https://inthecloud.withgoogle.com/partner-training/request-training-resources.html>