Machine Learning on Google Cloud

Category: AI, Data & Analytics | **Vendor:** Google Cloud

Duration: 5.00 hours (1 days) **4.1 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: vILT

Course Overview

Master Machine Learning on Google Cloud Learn to build, train, and deploy machine learning models on Google Cloud using Vertex AI, BigQuery ML, and TensorFlow. Master AutoML, feature engineering, model evaluation, and scalable ML pipelines.

About This Course

Master Machine Learning on Google Cloud Learn to build, train, and deploy machine learning models on Google Cloud using Vertex AI, BigQuery ML, and TensorFlow. Master AutoML, feature engineering, model evaluation, and scalable ML pipelines.

Who Should Attend

Basic proficiency with a scripting language, preferably Python, Some familiarity with basic machine learning concepts

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine

learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and

then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform

featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and

how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines, Course ObjectivesBuild, train, and deploy a machine learning model without writing a single line of code using Vertex AI AutoMLUnderstand when to use AutoML and Big Query MLCreate Vertex AI managed datasetsAdd features to a Feature StoreDescribe Analytics Hub, Dataplex, and Data CatalogDescribe hyperparameter tuning using Vertex Vizier and how it can be used to improve model performance Create a Vertex AI Workbench User-Managed Notebook, build a custom training job, and then deploy it using a Docker containerDescribe batch and online predictions and model monitoringDescribe how to improve data qualityPerform exploratory data analysisBuild and train supervised learning modelsOptimize and evaluate models using loss functions and performance metricsCreate repeatable and scalable train, eval, and test datasetsImplement ML models using TensorFlow/KerasDescribe how to represent and transform featuresUnderstand the benefits of using feature engineeringExplain Vertex AI Pipelines

Detailed Course Outline

How Google Does Machine Learning, How Google Does Machine Learning, How Google Does Machine Learning, Launching into Machine Learning, Launching into Machine Learning, Launching into Machine Learning, TensorFlow on Google Cloud, TensorFlow on Google Cloud, TensorFlow on Google Cloud, Feature Engineering, Feature Engineering, Feature Engineering, Machine Learning in the Enterprise, Machine Learning in the Enterprise, Machine Learning in the Enterprise

Frequently Asked Questions

Q: What delivery options are available for Machine Learning on Google Cloud?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Machine Learning on Google Cloud course provides up to 4.1 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Machine Learning on Google Cloud training?

The training takes place over 1 day(s), with each day lasting approximately 5.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Machine Learning on Google Cloud?

Yes, we provide corporate training, dedicated training, and closed classes for Machine Learning on Google Cloud. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Machine Learning on Google Cloud, Google Cloud, vILT

Q: Why choose Nexus Human for Machine Learning on Google Cloud?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Machine Learning on Google Cloud training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 13/11/2026.