

Google Cloud Big Data and Machine Learning Fundamentals

Course 4332– 8 Hours

Overview

This course introduces the Google Cloud big data and machine learning products and services that support the data-to-AI lifecycle. It explores the processes, challenges, and benefits of building a big data pipeline and machine learning models with Vertex AI on Google Cloud.

On Completion, Delegates will be able to

- Recognize the data-to-AI lifecycle on Google Cloud and the major products of big data and machine learning.
- Design streaming pipelines with Dataflow and Pub/Sub.
- Analyze big data at scale with BigQuery.
- Identify different options to build machine learning solutions on Google Cloud.
- Describe a machine learning workflow and the key steps with Vertex AI.
- Build a machine learning pipeline using AutoML.

Who Should Attend

- Data analysts, data scientists, and business analysts who are getting started with Google Cloud
- Individuals responsible for designing pipelines and architectures for data processing, creating and maintaining machine learning and statistical models querying datasets, visualizing query results, and creating reports
- Executives and IT decision makers evaluating Google Cloud for use by data Scientists

Prerequisites

Basic understanding of one or more of the following:

- Database query language such as SQL
- Data engineering workflow from extract, transform, load, to analysis, modeling, and deployment
- Machine learning models such as supervised versus unsupervised models



Course Contents

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- Big Data and Machine Learning on Google Cloud
- Data Engineering for Streaming Data
- Big Data with BigQuery
- Machine Learning Options on Google Cloud
- The Machine Learning Workflow with Vertex AI
- Course Summary