

Course

# Google Cloud Platform Big Data and Machine Learning Fundamentals

✓ Advanced

📺 Free

This course introduces participants to the big data capabilities of Google Cloud. Through a combination of presentations, demos, and hands-on labs, participants get an overview of Google Cloud and a detailed view of the data processing and machine learning capabilities. This course showcases the ease, flexibility, and power of big data solutions on Google Cloud.

Congratulations! You finished this course.



You've earned a badge. Share this badge on your profile page.

Introduction to the Data and  
✓ Machine Learning on Google Cloud Course >

This section is an overview of the course.

1/1 Videos

1/1 Documents

## ✓ Introduction to Google Cloud Platform >

Welcome to the Big Data and Machine Learning fundamentals on Google Cloud course. Here you will learn the basics of how the course is structured and the four main big data challenges you will solve for.

11/11 Videos

1/1 Documents

1/1 Labs

1/1 Quizzes

## ✓ Recommending Products using Cloud SQL and Spark >

In this section you will have an existing Apache SparkML recommendation model that is running on-premise. You will learn about recommendation models and how you can run them in the cloud with Cloud Dataproc and Cloud SQL.

8/8 Videos

1/1 Documents

1/1 Labs

1/1 Quizzes

## ✓ Predict Visitor Purchases Using BigQuery ML >

In this section, you will learn the foundations of BigQuery and big data analysis at scale. You will then learn how to build your own custom machine learning model to predict visitor purchases using just SQL with BigQuery ML.

13/13 Videos

1/1 Documents

1/1 Labs

1/1 Quizzes

## Real-time IoT Dashboards

### ✓ with Pub/Sub, Dataflow, and Data Studio >

In this section you will engineer and build an auto-scaling streaming data pipeline to ingest, process, and visualize data on a dashboard. Before you build your pipeline you'll learn the foundations of message-oriented architecture and pitfalls to avoid when designing and implementing modern data pipelines.

[8/8 Videos](#)[1/1 Documents](#)[1/1 Labs](#)[1/1 Quizzes](#)

## Deriving Insights from

### ✓ Unstructured Data using Machine Learning >

Don't want to create a custom ML model from scratch? Learn how to leverage and extend pre-built ML models like the Vision API and Cloud AutoML for image classification.

[10/10 Videos](#)[1/1 Documents](#)[1/1 Labs](#)[1/1 Quizzes](#)

### ✓ Summary >

In this final section, we will review the key challenges, solutions, and topics covered as part of this fundamentals course. We will also review additional resources and the steps you can take to get certified as a Google Cloud Data Engineer.

[1/1 Videos](#)[1/1 Documents](#)