
Google Cloud Fundamentals: Big Data and Machine Learning FREE SESSION

Duración: 1 Días **Código del Curso: GK2415** **Version: 2.1.4**

Temario:

This course will introduce you to Google Cloud's big data and machine learning functions. You'll begin with a quick overview of Google Cloud and then dive deeper into its data processing capabilities.

Dirigido a:

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.

Objetivos:

- Identify the purpose and value of the key Big Data and Machine Learning products in Google Cloud.
 - Use Cloud SQL and Dataproc to migrate existing MySQL and Hadoop/Pig/Spark/Hive workloads to Google Cloud.
 - Employ BigQuery and Cloud SQL to carry out interactive data analysis.
 - Choose between different data processing products in Google Cloud.
 - Create ML models with BigQuery ML, ML APIs, and AutoML.
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Prerequisitos:

Roughly one year of experience with one or more of the following:

- A common query language such as SQL.
 - Extract, transform, and load activities.
 - Data modeling.
 - Machine learning and/or statistics.
 - Programming in Python.
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Contenido:

The course includes presentations, demonstrations, and hands-on labs.

Module 1: Introduction to Google Cloud

- Identify the different aspects of Google Cloud's infrastructure.
- Identify the big data and ML products that form Google Cloud.

Module 2: Recommending Products Using Cloud SQL and Spark

- Review how businesses use recommendation models.
- Evaluate how and where you will compute and store your housing rental model results.
- Analyze how running Hadoop in the cloud with Dataproc can enable scale.
- Evaluate different approaches for storing recommendation data off-cluster.

Module 3: Predicting Visitor Purchases Using BigQuery ML

- Analyze big data at scale with BigQuery.
- Learn how BigQuery processes queries and stores data at scale.
- Walkthrough key ML terms: features, labels, training data.
- Evaluate the different types of models for structured datasets.
- Create custom ML models with BigQuery ML.

Module 4: Real-time Dashboards with Pub/Sub, Dataflow, and Google Data Studio

- Identify modern data pipeline challenges and how to solve them at scale with Dataflow.
- Design streaming pipelines with Apache Beam.
- Build collaborative real-time dashboards with Data Studio.

Module 5: Deriving Insights from Unstructured Data Using Machine Learning

- Evaluate how businesses use unstructured ML models and how the models work.
- Choose the right approach for machine learning models between pre-built and custom.
- Create a high-performing custom image classification model with no code using AutoML.

Module 6: Summary

- Recap of key learning points.
- Resources

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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