

Google Cloud Platform Big Data And Machine Learning Fundamentals (CPB100)

Duration: 1 Days Course Code: GO8325

Overview:

This one-day instructor-led course introduces participants to the big data capabilities of Google Cloud Platform. Through a combination of presentations, demos, and hands-on labs, you will get an overview of the Google Cloud platform 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 Platform.

Target Audience:

Data analysts getting started with Google Cloud Platform Data scientists getting started with Google Cloud Platform Business analysts getting started with Google Cloud Platform 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 Platform for use by data scientists

Objectives:

- In this course you will learn:
- Purpose and value of the key Big Data and Machine Learning products in the GoogleCloud Platform
- Use Cloud SQL and Cloud Dataproc to migrate existing MySQL andHadoop/Pig/Spark/Hive workloads to Google Cloud Platform
- Employ BigQuery and Cloud Datalab to carry out interactive data analysis
- Prerequisites:
- Basic proficiency with common query language such as SQL
- Experience with data modeling, extract, transform, load activities
 Developing applications using a common programming language such Python
- Familiarity with Machine Learning and/or statistics

- Train and use a neural network using TensorFlow
- Employ ML APIs
- Choose between different data processing products on the Google Cloud Platform

Content:

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| 1. Introducing Google Cloud Platform | 6. Summary | Lab 4: Build machine learning dataset |
| Google Platform Fundamentals Overview Google Cloud Platform Data Products and Technology Usage scenarios | Why GCP?Where to go from hereAdditional Resources | Lab 5: Train and use neural network |
| 2. Compute and Storage Fundamentals | Classroom Live Labs | Lab 6: Employ ML APIs |
| CPUs on demand (Compute Engine) A global filesystem (Cloud Storage) CloudChall | Lab 1: Sign up for Google Cloud Platform | |
| CloudShell3. Data Analytics on the Cloud | Lab 2: Set up a Ingest-Transform-Publish data processing pipeline | |
| Stepping-stones to the cloud CloudSQL: your SQL database on the cloud Lab: Importing data into CloudSQL and running queries Spark on Dataproc | Lab 3: Machine Learning Recommendations with SparkML | |
| 4. Scaling Data Analysis | | |
| Fast random access Datalab BigQuery Machine Learning with TensorFlow Fully built models for common needs | | |
| 5. Data Processing Architectures | | |
| Message-oriented architectures with Pub/Sub Creating pipelines with Dataflow Reference architecture for real-time and batch data processing | | |

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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