

Szkolenie: Google Cloud Google Cloud Platform Big Data and Machine Learning Fundamentals



Cel szkolenia:

This accelerated on-demand course introduces participants to the Big Data and Machine Learning capabilities of Google Cloud Platform (GCP). It provides a quick overview of the Google Cloud Platform and a deeper dive of the data processing capabilities.

Audience:

Candidates experienced with one or more of the following: A common query language such as SQL
Extract, transform, load activities
Data modeling
Machine learning and/or statistics
Programming in Python.

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

Plan szkolenia:

- Introducing Google Cloud Platform
 - Google Platform Fundamentals Overview.
 - Google Cloud Platform Big Data Products.
- Compute and Storage Fundamentals
 - CPUs on demand (Compute Engine).
 - A global filesystem (Cloud Storage).
 - CloudShell.
 - Lab: Set up a Ingest-Transform-Publish data processing pipeline.
- Data Analytics on the Cloud
 - Stepping-stones to the cloud.
 - Cloud SQL: your SQL database on the cloud.
 - Lab: Importing data into CloudSQL and running queries.
 - Spark on Dataproc.
 - Lab: Machine Learning Recommendations with Spark on Dataproc.
- Scaling Data Analysis
 - Fast random access.
 - Datalab.

- BigQuery.
- Lab: Build machine learning dataset.
- Machine Learning
 - Machine Learning with TensorFlow.
 - Lab: Carry out ML with TensorFlow
 - Pre-built models for common needs.
 - Lab: Employ ML APIs.
- Data Processing Architectures
 - Message-oriented architectures with Pub/Sub.
 - Creating pipelines with Dataflow.
 - Reference architecture for real-time and batch data processing.
- Summary
 - Why GCP?
 - Where to go from here
 - Additional Resources

Wymagania:

Before enrolling in this course, participants should have roughly one year of experience with one or more of the following: A common query language such as SQL Extract, transform, load activities Data modeling Machine learning and/or statistics Programming in Python.

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by Google Cloud Platform.

Prowadzący:

Authorized Google Cloud Platform Trainer.