
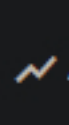
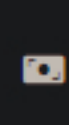
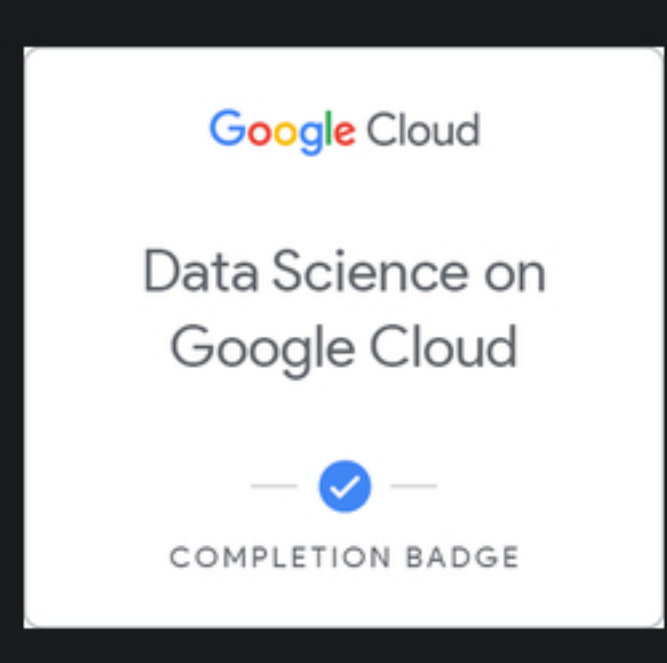


Quest

Data Science on Google Cloud

 1 day  Advanced  37 Credits

This is the first of two Quests of hands-on labs is derived from the exercises from the book **Data Science on Google Cloud Platform** by Vallappa Lakshmanan, published by O'Reilly Media, Inc. In this first Quest, covering up through chapter 8, you are given the opportunity to practice all aspects of ingestion, preparation, processing, querying, exploring and visualizing data sets using Google Cloud tools and services.





Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.

Lab

✔ Introduction to SQL for BigQuery and Cloud SQL



In this lab you will learn fundamental SQL clauses and will get hands on practice running structured queries on BigQuery and Cloud SQL.

★★★★★ 1 hour Introductory 1 Credit  

Lab

✔ Ingesting Data Into The Cloud



In this lab you'll learn how to use a bash script to download selected data from a large public data set that is available on the internet.

★★★★★ 45 minutes Introductory 1 Credit  

Lab

✔ ▲ Loading Data into Google Cloud SQL



In this lab you will import data from CSV text files into Cloud SQL and then carry out some basic data analysis using simple queries.

★★★★★ 1 hour intermediate 5 Credits  

Lab

✔ ▲ Visualizing Data with Google Data Studio



This lab demonstrates how to use Google Data Studio to visualize data stored in Google Cloud SQL.

★★★★★ 1 hour 30 minutes intermediate 5 Credits  

Lab

✔ ▲ Processing Data with Google Cloud Dataflow



In this lab you will simulate a real-time real world data set from a historical data set. This simulated data set will be processed from a set of text files using Python and Google Cloud DataFlow, and the resulting simulated real-time data will be stored in Google BigQuery.

★★★★★ 1 hour 15 minutes intermediate 5 Credits  

Lab

✔ ▲ Visualize Real Time Geospatial Data with Google Data Studio



Use Google Dataflow to process real-time streaming data from a real-time real world historical data set, storing the results in Google BigQuery and then using Google Data Studio to visualize real-time geospatial data.

★★★★★ 1 hour 15 minutes intermediate 5 Credits  

Lab

✔ ▲ Loading Data into BigQuery for Exploratory Data Analysis



You will learn how to load text data into BigQuery and then use that data for rapid exploratory data analysis using Google Cloud Datalab notebooks.

★★★★★ 1 hour 15 minutes intermediate 5 Credits  

Lab

✔ Exploratory Data Analysis Using AI Platform

Learn the process of analyzing a data set stored in BigQuery using AI Platform to perform queries and present the data using various statistical plotting techniques.

★★★★★ 1 hour intermediate 5 Credits  

Lab

✔ Evaluating a Data Model

Learn the process for partitioning a data set into a training set that will be used to develop a model, and a test set that can then be used to evaluate the accuracy of the model and then independently evaluate predictive models in a repeatable manner.

★★★★★ 45 minutes intermediate 5 Credits 