Data Science on the Google Cloud Platform: Implementing End-To-End Real-Time Data Pipelines: From Ingest to Machine Learning

Valliappa Lakshmanan

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Learn how easy it is to apply sophisticated statistical and machine learning methods to real-world problems when you build on top of the Google Cloud Platform (GCP). This hands-on guide shows developers entering the data science field how to implement an end-to-end data pipeline, using statistical and machine learning methods and tools on GCP. Through the course of the book, you'll work through a sample business decision by employing a variety of data science approaches.

Follow along by implementing these statistical and machine learning solutions in your own project on GCP, and discover how this platform provides a transformative and more collaborative way of doing data science.

You'll learn how to:

Automate and schedule data ingest, using an App Engine application
Create and populate a dashboard in Google Data Studio
Build a real-time analysis pipeline to carry out streaming analytics
Conduct interactive data exploration with Google BigQuery
Create a Bayesian model on a Cloud Dataproc cluster
Build a logistic regression machine-learning model with Spark
Compute time-aggregate features with a Cloud Dataflow pipeline
Create a high-performing prediction model with TensorFlow
Use your deployed model as a microservice you can access from both batch and real-time pipelines

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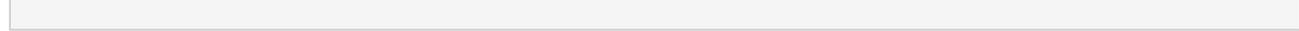ISBN   : 9781491974568
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Douglas says

A level-headed end to end process for data science and engineering in the cloud (not just Google Cloud). The author was a teammate of mine when joining the company and he should be very proud of this work.