

Sela.



MLGC

Machine Learning on Google Cloud



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Machine Learning on Google Cloud

MLGC - Version: 1

0 day course

Description:

This course teaches you how to build Vertex AI AutoML models without writing a single line of code; build BigQuery ML models knowing basic SQL; create Vertex AI custom training jobs you deploy using containers (with little knowledge of Docker); use Feature Store for data management and governance; use feature engineering for model improvement; determine the appropriate data preprocessing options for your use case; write distributed ML models that scale in TensorFlow; and leverage best practices to implement machine learning on Google Cloud. Learn all this and more!

Topics:

- **How Google Does Machine Learning**
 - Objectives
 - Activities:
 - Hands-On Labs
 - Module Quizzes
 - Module Readings
- **Launching into Machine Learning**
 - Objectives



- Activities

- **TensorFlow on Google Cloud**

- Objectives:

- The modules cover designing and building a TensorFlow input data pipeline, building

- ML models with TensorFlow and Keras, improving the accuracy of ML models, writing

- ML models for scaled use, and writing specialized ML models.

- • Create TensorFlow and Keras machine learning models.

- • Describe TensorFlow key components.

- • Use the tf.data library to manipulate data and large datasets.

- • Build a ML model using tf.keras preprocessing layers.

- • Use the Keras Sequential and Functional APIs for simple and advanced model creation. Understand how model subclassing can be used for more

- customized models.

- • Use tf.keras.preprocessing utilities for working with image data, text data, and

- sequence data.

- • Train, deploy, and productionalize ML models at scale with Cloud AI Platform.

- Activities:

- • Hands-On Labs

- • Module Quizzes

- • Module Readings

- **Feature Engineering**

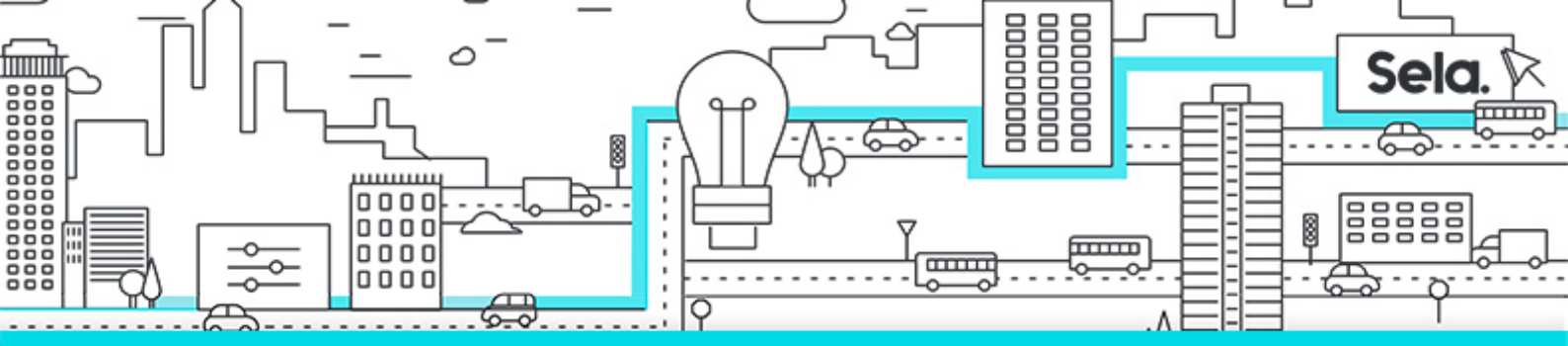
- Objectives

- Activities:

- • Hands-On Labs

- • Module Quizzes

- • Module Readings



- **Machine Learning in the Enterprise**

- Objectives
- Activities:
 - • Hands-On Labs
 - • Module Quizzes
 - • Module Readings