Google Cloud

Introduction

End-to-End Lab on Structured Data ML

Advanced ML with TensorFlow on GCP

End-to-End Lab on Structured Data ML

Production ML Systems

Image Classification Models

Sequence Models

Recommendation Systems

Learn how to...

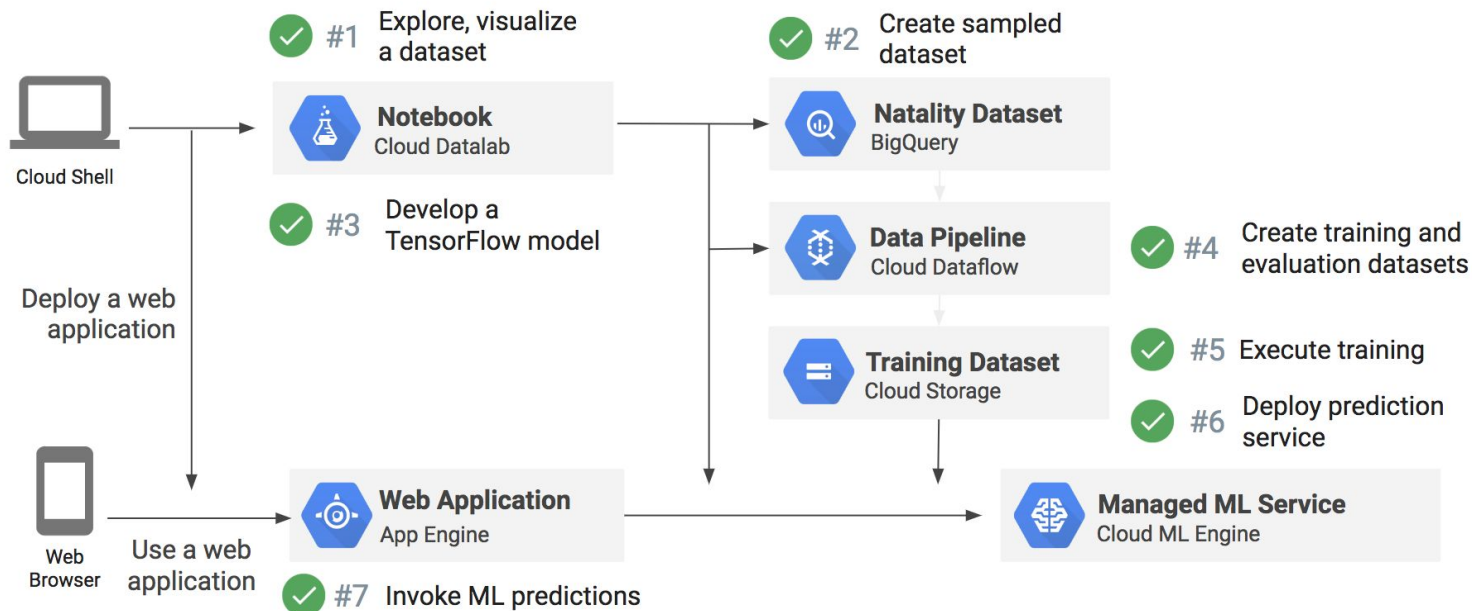Explore large datasets for features

Create training and evaluation datasets

Build models with the Estimator API in TensorFlow

Train at scale and deploy models into production with GCP ML tools

7 hands-on machine learning labs

✓ #1 Explore, visualize a dataset

✓ #2 Create sampled dataset

Cloud Shell

Notebook
Cloud Datalab

Natality Dataset
BigQuery

✓ #3 Develop a TensorFlow model

Data Pipeline
Cloud Dataflow

✓ #4 Create training and evaluation datasets

Deploy a web application

Training Dataset
Cloud Storage

✓ #5 Execute training

✓ #6 Deploy prediction service

Web Browser

Use a web application

Web Application
App Engine

Managed ML Service
Cloud ML Engine

✓ #7 Invoke ML predictions

= Lab Exercises

Summary of ML labs

1   Explore, visualize a dataset

2   Create sampled dataset

3   Develop a TensorFlow model

4   Create training and evaluation datasets

5   Execute training

6   Deploy prediction service

7   Invoke ML predictions

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