02:00:00

Start Lab

Load CSV, Numpy, and Text data in TensorFlow

** ** ** Rate Lab

Free

Setup Launch Al Platform Notebooks Clone course repo within your Al Platform Notebooks instance **Recommendation Systems** with TensorFlow End your lab

Overview

loading data from NumPy arrays into a tf.data.Dataset.

Overview

2 hours

Learning Objectives

In this lab, we load CSV data from a file into a tf.data.Dataset. This lab provides an example of

Load Numpy data

Load Text Data

· Load a CSV file into a tf.data.Dataset.

For each lab, you get a new Google Cloud project and set of resources for a fixed time at no cost.

Setup

2. Note the lab's access time (for example, 02:00:00 and make sure you can finish in that time block.

There is no pause feature. You can restart if needed, but you have to start at the

START LAB

Caution: When you are in the console, do not deviate

from the lab instructions. Doing so may cause your

account to be blocked. Learn more.

1. Make sure you signed into Qwiklabs using an incognito window.

beginning. 3. When ready, click

4. Note your lab credentials. You will use them to sign in to the Google Cloud Console.

Open Google Console

Username

google2876526_student@qwiklabs.n 📋 Password TG959yrKDX **GCP Project ID** qwiklabs-gcp-0855e773352d3560 New to labs? View our introductory video! 5. Click Open Google Console. 6. Click **Use another account** and copy/paste credentials for **this** lab into the prompts. If you use other credentials, you'll get errors or incur charges. 7. Accept the terms and skip the recovery resource page.

Launch Al Platform Notebooks

your work and removes the project.

To launch AI Platform Notebooks:

Step 1

Do not click **End Lab** unless you are finished with the lab or want to restart it. This clears

Click on the Navigation Menu. Navigate to AI Platforms, then to Notebooks. ARTIFICIAL INTELLIGENCE

Dashboard

Notebooks

Al Hub

Jobs

Models

Python 2 and 3 with Pandas, SciKit Learn and other key packages pre-installed

Without GPUs

With 1 NVIDIA Tesla K80

TensorFlow 1.14 pre-installed with support for Keras

TensorFlow 2.0 pre-installed with support for Keras

TensorFlow 1.14

TensorFlow 2.0

PvTorch 1.2 pre-installed

Pytorch 1.2

In the pop-up, confirm the name of the deep learning VM, move to the bottom of the window

Talent Solution

Translation

and click Create.

Natural Language

Data Labeling

Al Platform

Tables

Vision Step 2 On the Notebook instances page, click + NEW INSTANCE . Select TensorFlow 2.x without GPUs. ■ Google Cloud Platform • qwiklabs-gcp-gcpd-2f6ffe6a37af • Al Platform Notebook instances BETA → NEW INSTANCE C REFRESH ► START ■ STOP 🖰 RESET 🖀 DELETE Customize instance Dashboard Create and use Jupyter Notebooks with a no JupyterLab pre-installed and are configured frameworks. Learn more R 3.6 and key libraries pre-installed

No notebook instances to display

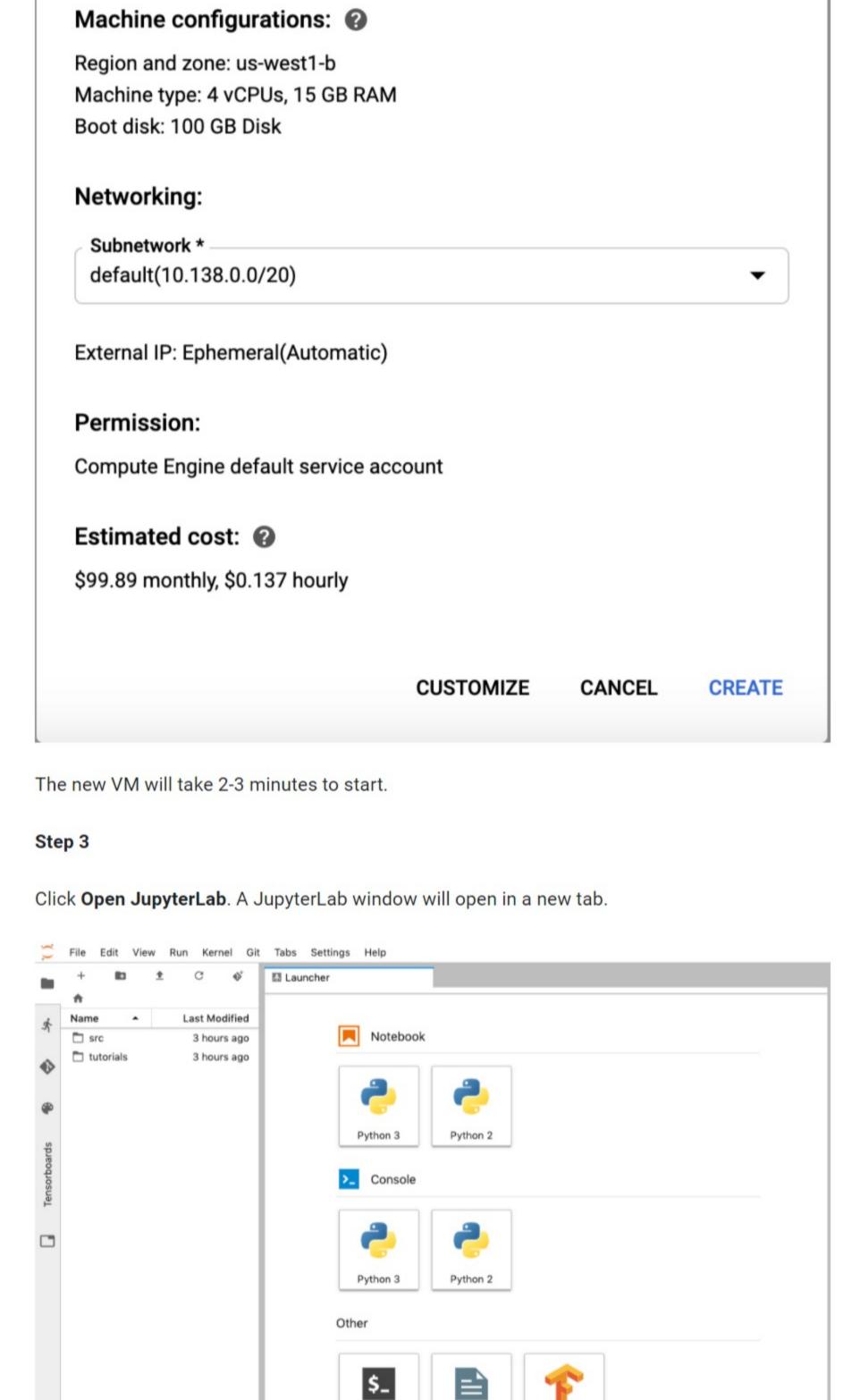
New notebook instance

tensorflow-20191031-100408

Instance name *

Environment:

Image: TensorFlow 2.0 (with Intel® MKL-DNN/MKL and CUDA 10.0) Packages: python2, python3, scikit-learn, pandas, and nltk.



Terminal

Clone course repo within your Al Platform

To clone the training-data-analyst notebook in your JupyterLab instance:

In JupyterLab, click the Terminal icon to open a new terminal.

Notebook

Python 3

Terminal

File Edit View Run Kernel Git

> training-data-analyst

blogs

bootcamps

courses

CPB100

datalab

quests

Step 2

self-paced-l...

CONTRIBU...

G

Last Modified

2 minutes ago

Console

Notebooks instance

Step 1

Launcher

Text File

Tensorboard

Python 3 Python 2 Other

Text File

notebook-based labs throughout this course are available in this directory.

Python 2

Step 2 At the command-line prompt, type in the following command and press Enter. git clone https://github.com/GoogleCloudPlatform/training-data-analyst Step 3 Confirm that you have cloned the repository by double clicking on the training-dataanalyst directory and ensuring that you can see its contents. The files for all the Jupyter

Tensorboard

LICENSE 2 minutes ago README.md 2 minutes ago Recommendation Systems with TensorFlow Step 1 In the notebook interface, navigate to training-data-analyst > courses > machine_learning > deepdive2 > introduction_to_tensorflow > labs and open load_diff_filedata.ipynb.

found in the notebook UI under Run.

hints (they are in white text).

used and cleans the account for you.

with which they are associated.

stars, type a comment, and then click Submit.

menu, select Clear All Outputs). Carefully read through the notebook instructions and fill in lines marked with #TODO where you need to complete the code as needed

In the notebook interface, click on Edit > Clear All Outputs (click on Edit, then in the drop-down

Tip: To run the current cell you can click the cell and hit shift+enter. Other cell commands are

• Hints may also be provided for the tasks to guide you along. Highlight the text to read the

training-data-analyst > courses > machine_learning > deepdive2 > introduction_to_tensorflow > solutions and open load_diff_filedata.ipynb.

• If you need more help, you may take a look at the complete solution by navigating to

End your lab When you have completed your lab, click End Lab. Qwiklabs removes the resources you've

The number of stars indicates the following: • 1 star = Very dissatisfied • 2 stars = Dissatisfied

You will be given an opportunity to rate the lab experience. Select the applicable number of

• 3 stars = Neutral • 4 stars = Satisfied • 5 stars = Very satisfied

You can close the dialog box if you don't want to provide feedback.

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