Start Lab

02:00:00

[ML on GCP C3] Basic Introduction to Logistic Regression

Overview

Setup

Deployment Manager

Launch AI Platform

Notebooks

Basic Introduction to

Logistic Regression

End your lab



Logistic regression is a supervised learning, but contrary to its name, it is not a regression, but

Overview

a classification method. It assumes that the data can be classified (separated) by a line or an n-dimensional plane, i.e. it is a linear model. In this lab, We will build a neural network that classifies images, train and evaluate the accuracy of the model.

Build a model

Learning Objectives

- Train this model on example data

• Use the model to make predictions about unknown data

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

beginning.

Setup

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

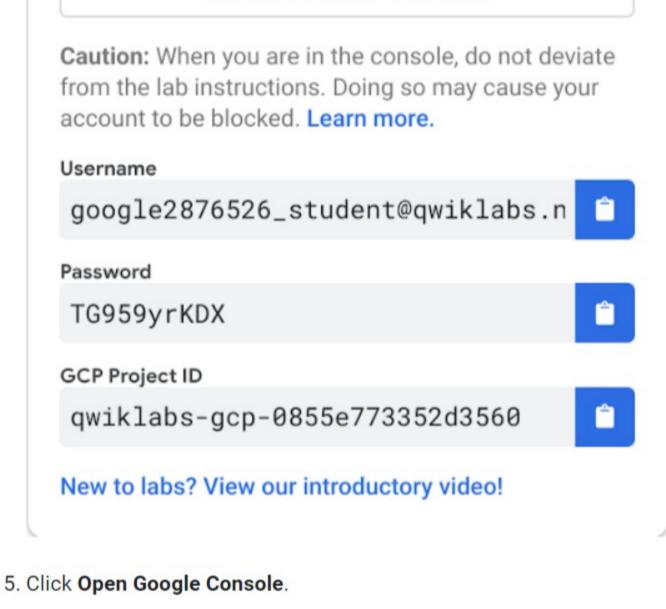
2. Note the lab's access time (for example, 02:00:00 and make sure you can finish in that

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

3. When ready, click START LAB .

Open Google Console

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



If you use other credentials, you'll get errors or incur charges.

6. Click **Use another account** and copy/paste credentials for **this** lab into the prompts.

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

your work and removes the project.

7. Accept the terms and skip the recovery resource page.

The notebook instance will contain the github repository you need to complete this

will need for this exercise.

Deployment Manager

Please wait before launching the Jupyter notebook, otherwise the script may be interrupted and the repository may not be cloned.

This lab is using a deployment manager script to create the Cloud AI Platform instance you

Dashboard

assignment. It should take 2 - 3 minutes for the instance to be ready.

Step 1 Click on the Navigation Menu. Navigate to Al Platforms, then to Notebooks.

Launch Al Platform Notebooks

ARTIFICIAL INTELLIGENCE

Data Labeling

Al Platform

To launch AI Platform Notebooks:

Natural Language
Al Hub

Tables
> Jobs

Talent Solution
> Models

★ Translation
✓

Vision

repository is named training-data-analyst.

a month ago a month ago

O Nan

Step 2

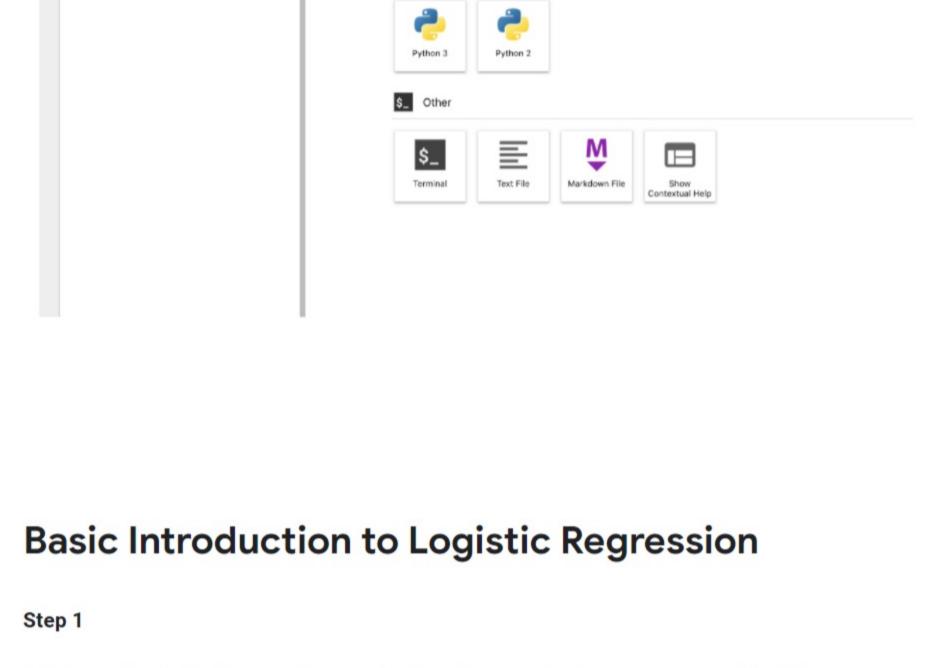
Python 3 Python 2

Console

Notebook

Click Open JupyterLab. A JupyterLab window will open in a new tab. The github repository that

you will use should have been already cloned by the Deployment Manager script. The



In the notebook interface, navigate to training-data-analyst > courses > machine_learning >

Step 2 In the notebook interface, click on Edit > Clear All Outputs (click on Edit, then in the drop-down

deepdive2 > introduction_to_tensorflow > labs and opening

basic_intro_logistic_regression.ipynb.

menu, select Clear All Outputs).

you need to complete the code as needed

Tip: To run the current cell you can click the cell and hit **shift+enter**. Other cell commands are found in the notebook UI under **Run**.

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

Carefully read through the notebook instructions and fill in lines marked with #TODO where

hints (they are in white text).
 If you need more help, you may take a look at the complete solution by navigating to training-data-analyst > courses > machine_learning > deepdive2 >

introduction_to_tensorflow > solutions and opening basic_intro_logistic_regression.ipynb.

End your lab

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

used and cleans the account for you.

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

The number of stars indicates the following:

stars, type a comment, and then click Submit.

- 1 star = Very dissatisfied
 2 stars = Dissatisfied
 3 stars = Neutral
- 4 stars = Satisfied
 5 stars = Very satis

5 stars = Very satisfied
 You can close the dialog box if you don't want to provide feedback.

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