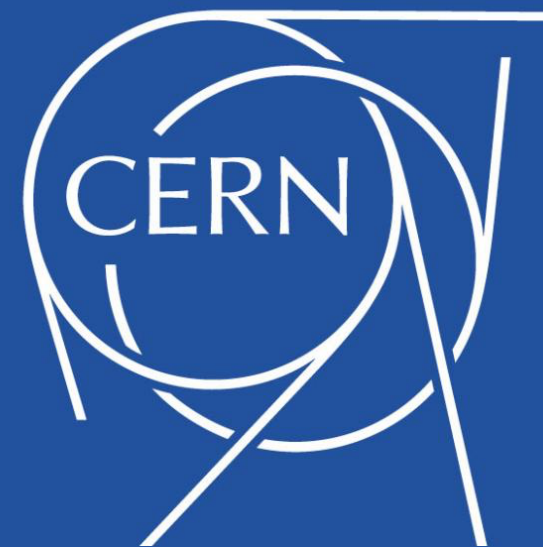


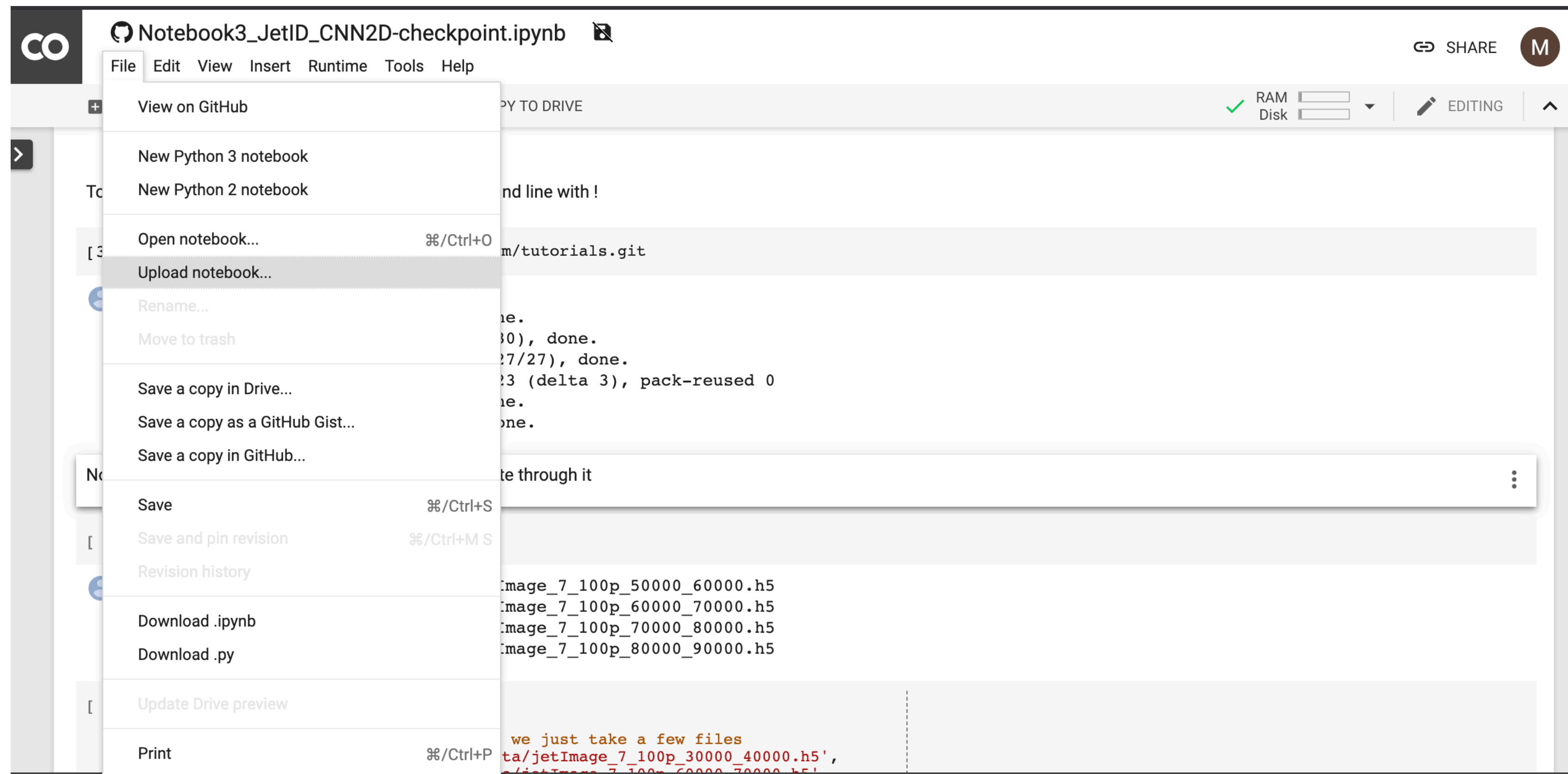
Running Tutorial Notebooks in Colab

Maurizio Pierini



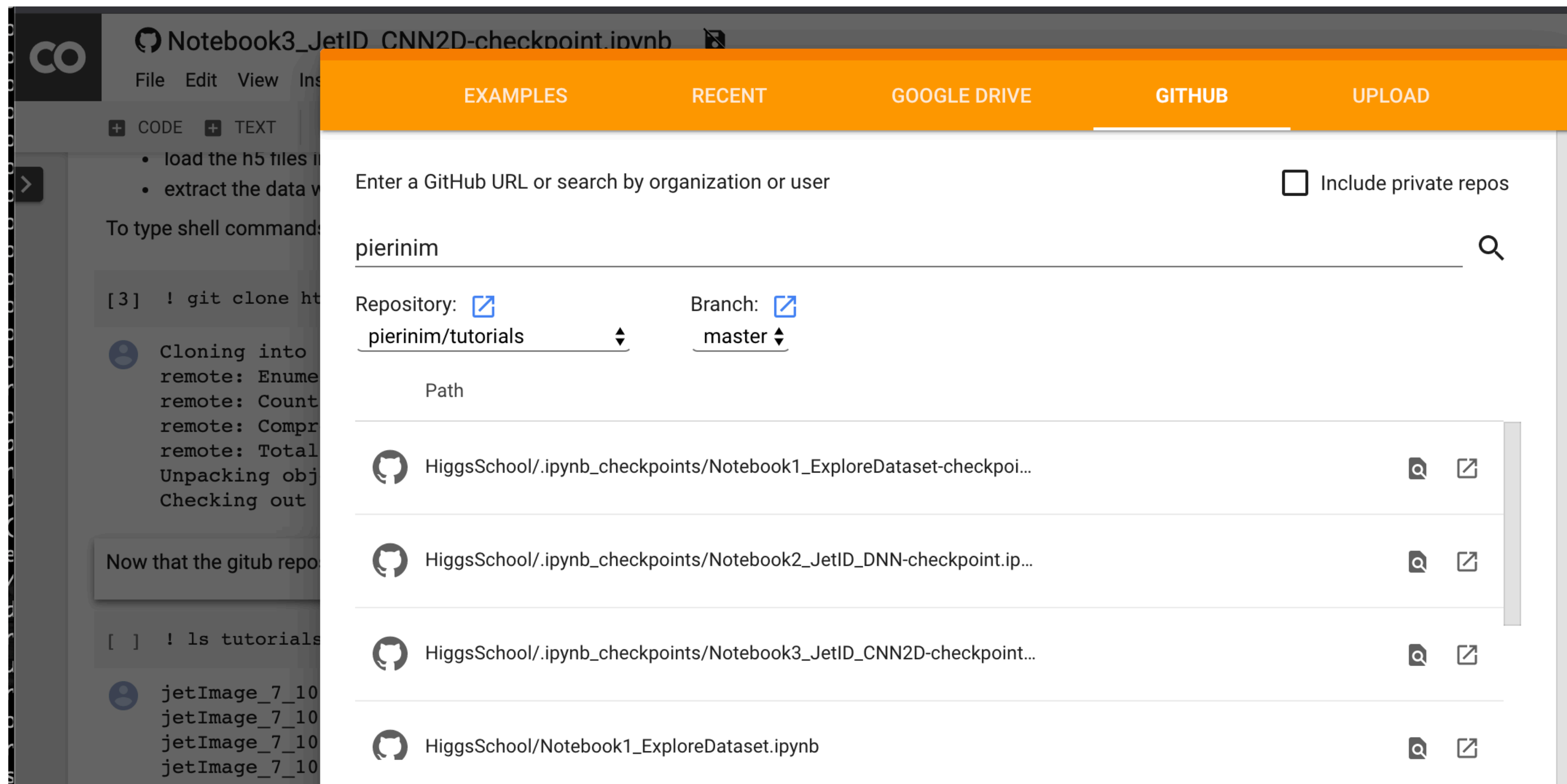
Step1: Open Notebook on Colab

Go to <https://colab.research.google.com>



Step2: import the Tutorial from gitlab

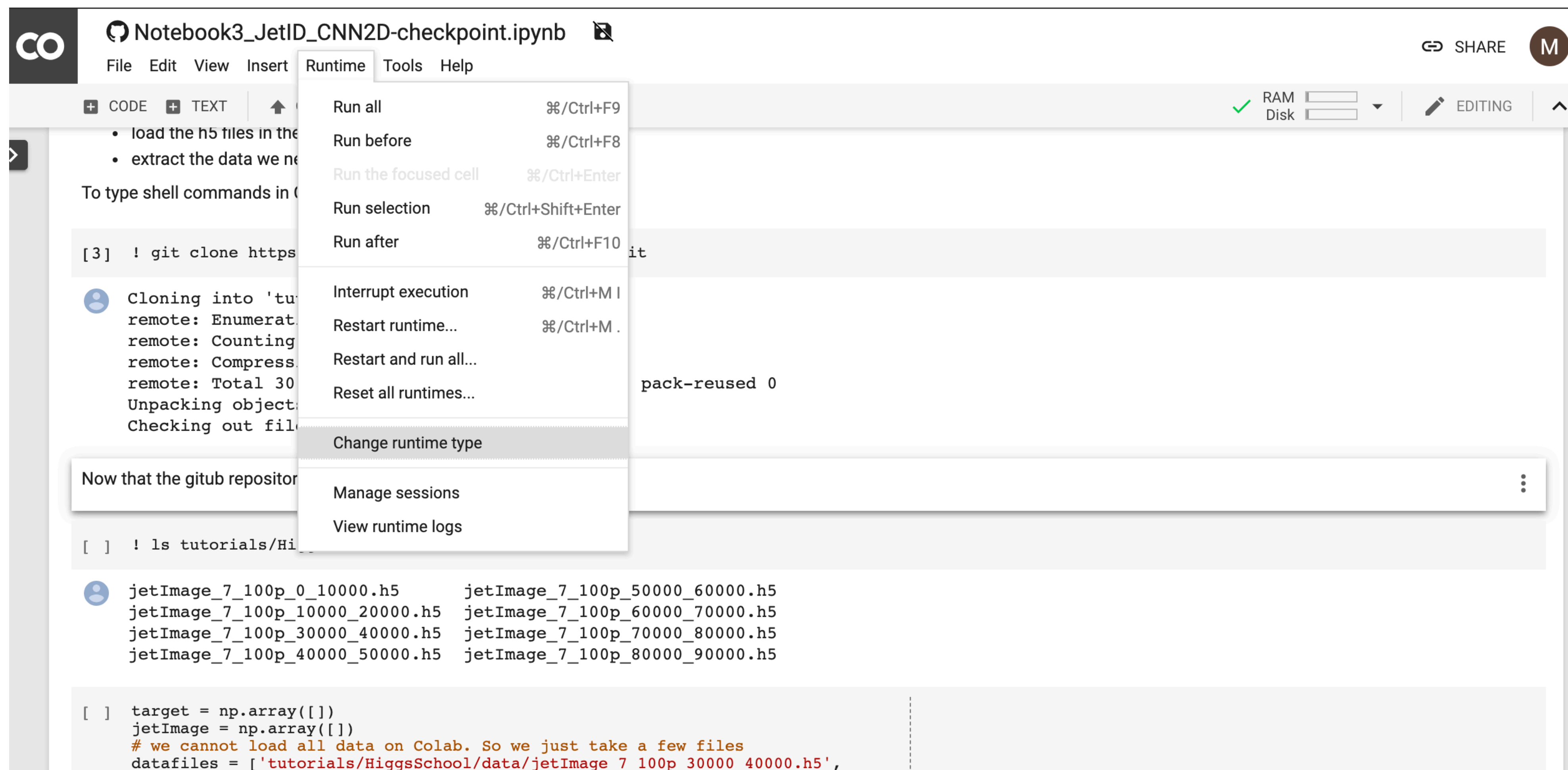
- ◎ Click on the GITHUB tab
- ◎ Specify the repository pierinim/tutorials
- ◎ Click in the notebook



The screenshot shows the JupyterLab interface with the GitHub tab selected. The search bar contains the text "pierinim". Below the search bar, the repository "pierinim/tutorials" is selected. The list of repositories shows the following entries:

Repository	Branch	Path
HiggsSchool/.ipynb_checkpoints/Notebook1_ExploreDataset-checkpoi...	master	
HiggsSchool/.ipynb_checkpoints/Notebook2_JetID_DNN-checkpoint.ip...	master	
HiggsSchool/.ipynb_checkpoints/Notebook3_JetID_CNN2D-checkpoint...	master	
HiggsSchool/Notebook1_ExploreDataset.ipynb	master	

Set your resources to use GPUs



Notebook3_JetID_CNN2D-checkpoint.ipynb

File Edit View Insert Runtime Tools Help

CODE TEXT

- load the h5 files in the
- extract the data we ne

To type shell commands in (

```
[3] ! git clone https
```

Cloning into 'tu
remote: Enumerat
remote: Counting
remote: Compress
remote: Total 30
Unpacking object
Checking out fil

Now that the gitub repositor

```
[ ] ! ls tutorials/Hi
```

```
jetImage_7_100p_0_10000.h5      jetImage_7_100p_50000_60000.h5
jetImage_7_100p_10000_20000.h5  jetImage_7_100p_60000_70000.h5
jetImage_7_100p_30000_40000.h5  jetImage_7_100p_70000_80000.h5
jetImage_7_100p_40000_50000.h5  jetImage_7_100p_80000_90000.h5
```

```
[ ] target = np.array([])
jetImage = np.array([])
# we cannot load all data on Colab. So we just take a few files
datafiles = ['tutorials/HiggsSchool/data/jetImage_7_100p_30000_40000.h5',
```

RAM Disk

EDITING

Set your resources to use GPUs

and line with !

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ate th

Image_7_100p_50000_60000.h5
Image_7_100p_60000_70000.h5
Image_7_100p_70000_80000.h5

Notebook settings

Runtime type
Python 3 ▼

Hardware accelerator
GPU ▼ ⓘ

☐ Omit code cell output when saving this notebook

CANCEL SAVE