Prepare your TENSORFLOW resource on Saturn Cloud

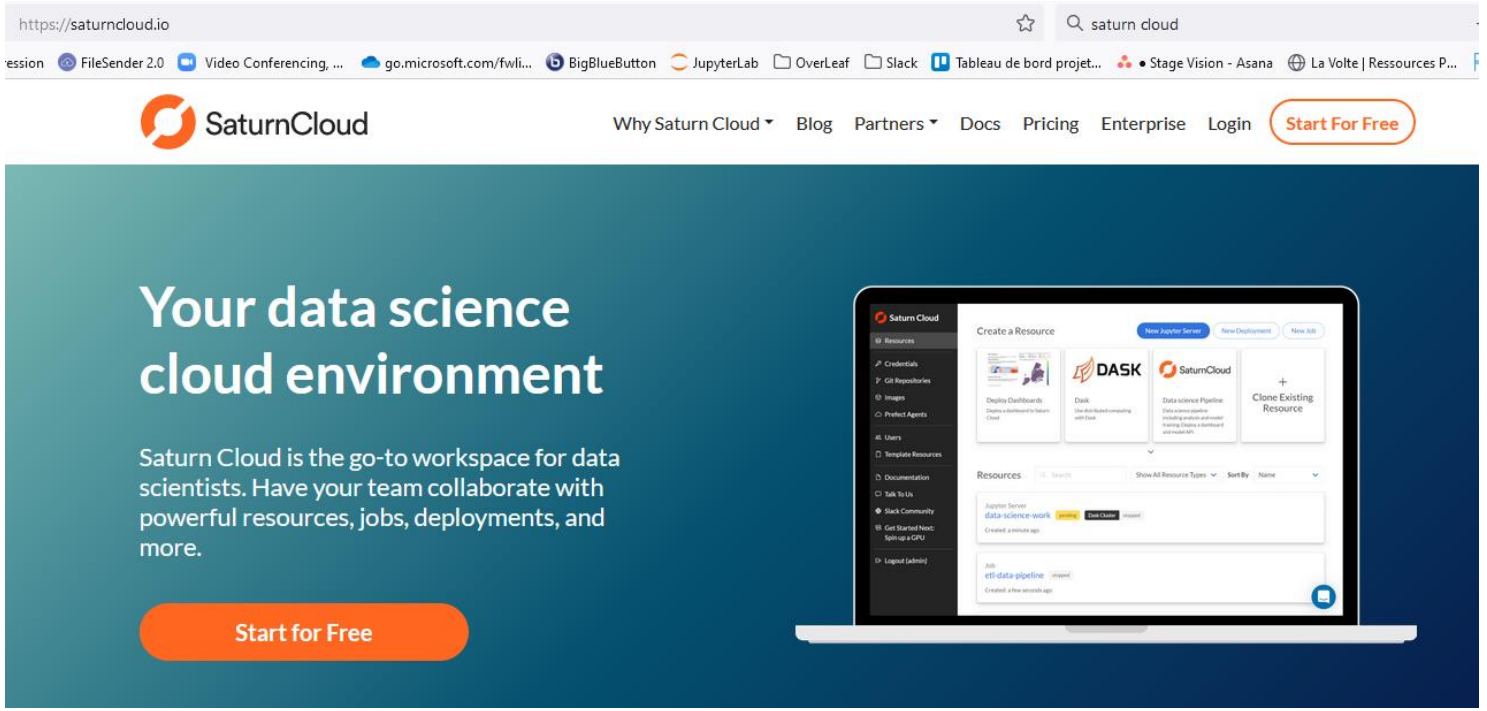
Hands-on 1 Classification
Hands-on 2 Segmentation

Steps required

1. Create an account on a cloud plateform (Saturn Cloud)
2. Create a jupyter server and parametrize it on this cloud
3. Start the jupyter server
4. Launch the Jupyter lab environment

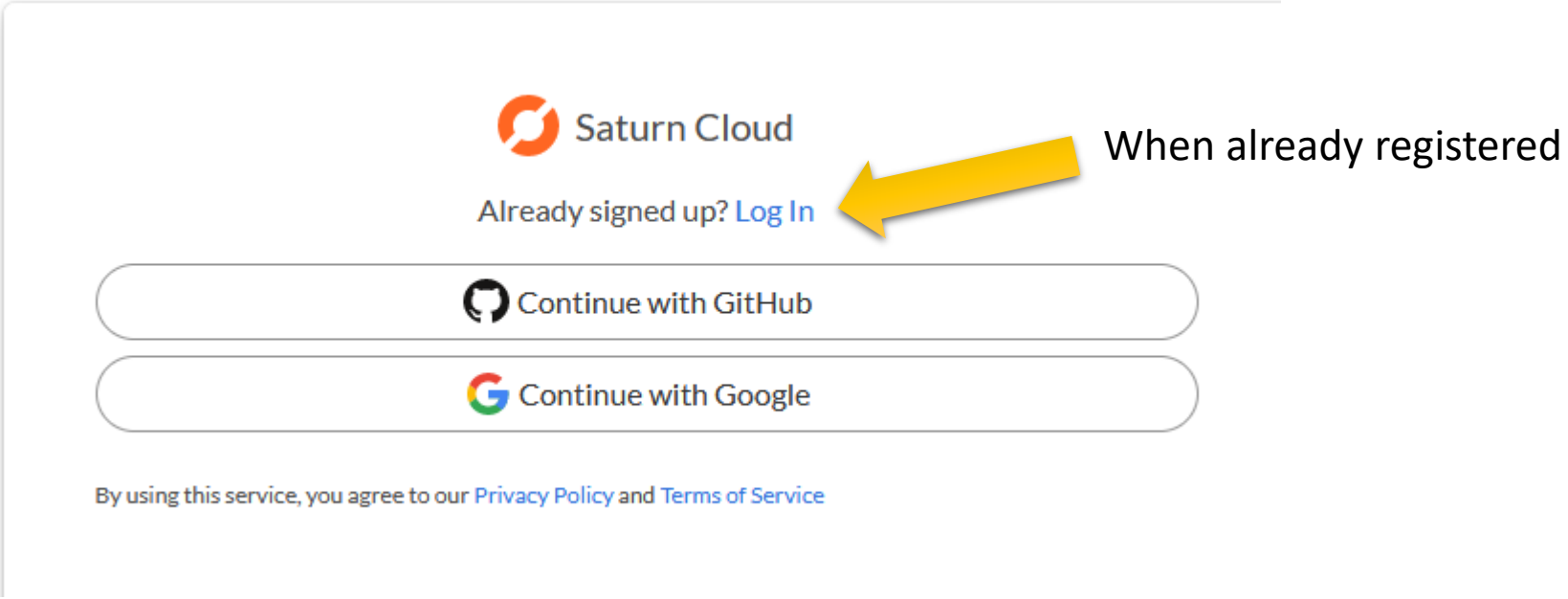
1- Create an account (if not already done !)

- It’s free, « just » need an email adress
- Connect on https://saturncloud.io and clic on « Start for Free »



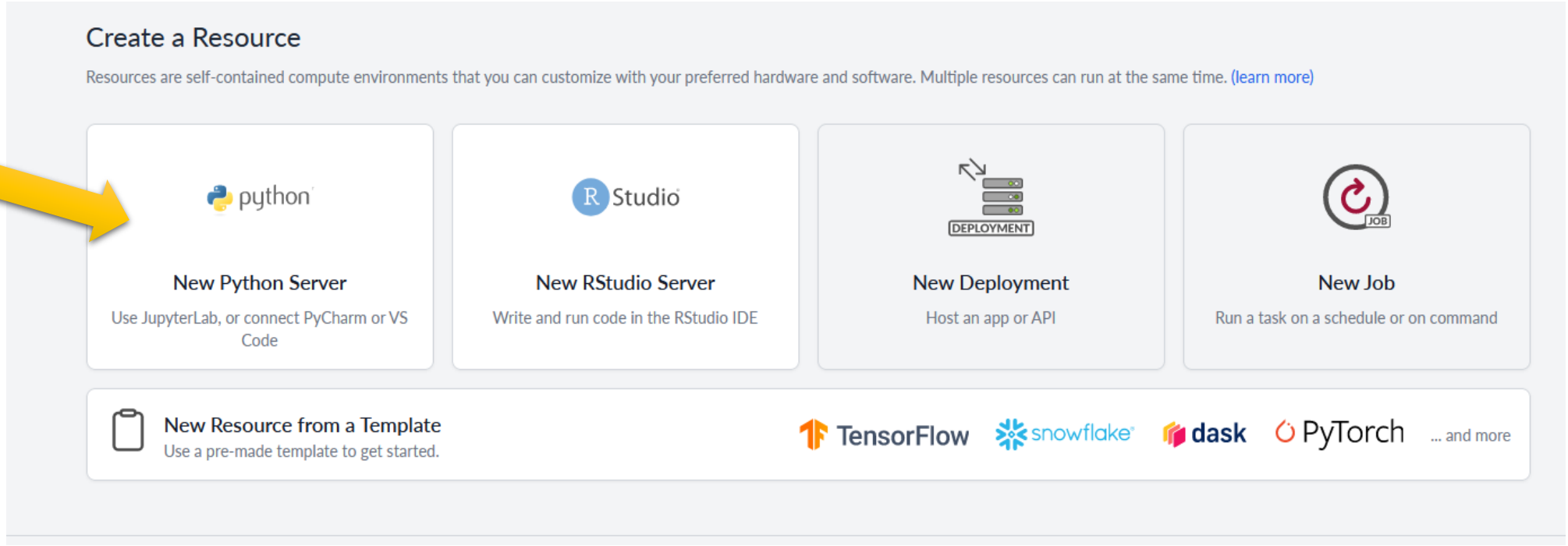
1- create an account

- You can use one of your GitHub or Google account
- Optionnaly, you can create a Saturn Cloud account



2- Create your jupyter server

- Hands-on are Jupyter notebooks, so create first a new Python server on Saturn Cloud

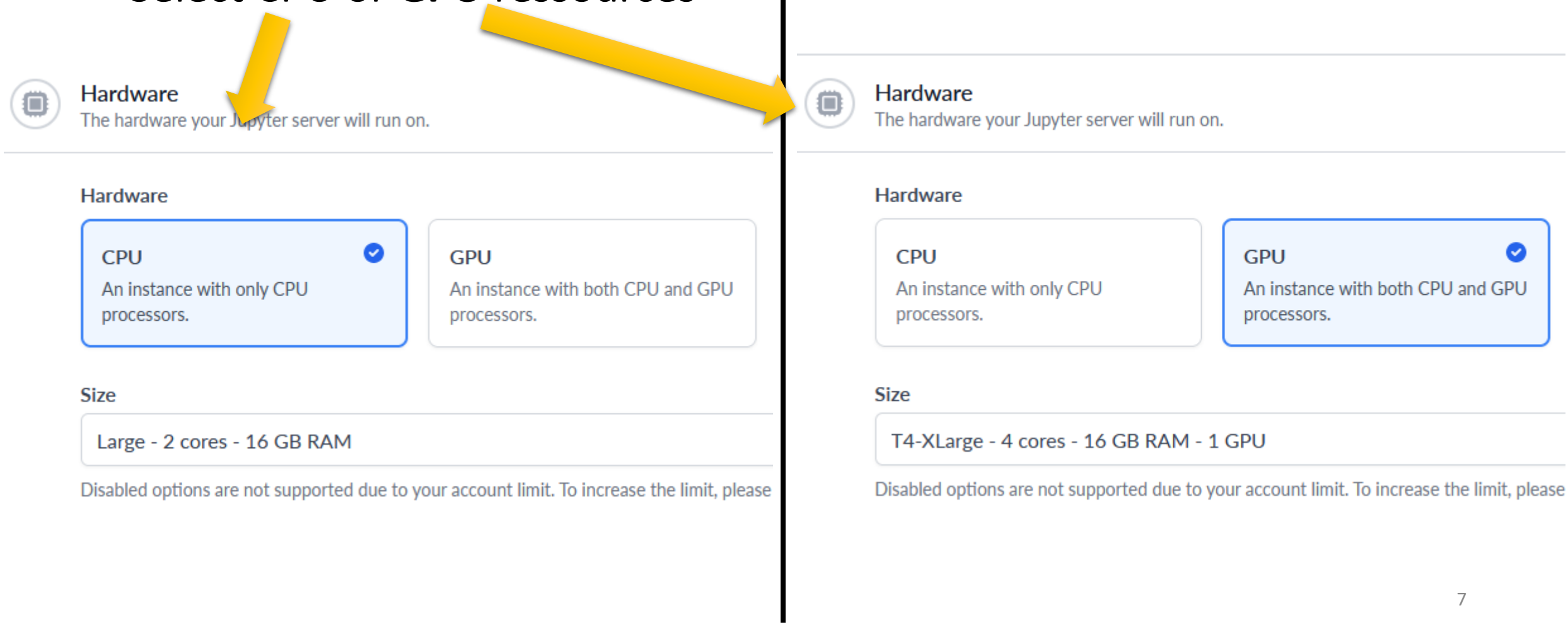


2- Server Parameters 1/4

Give a name (TF-Hands-On is nice)

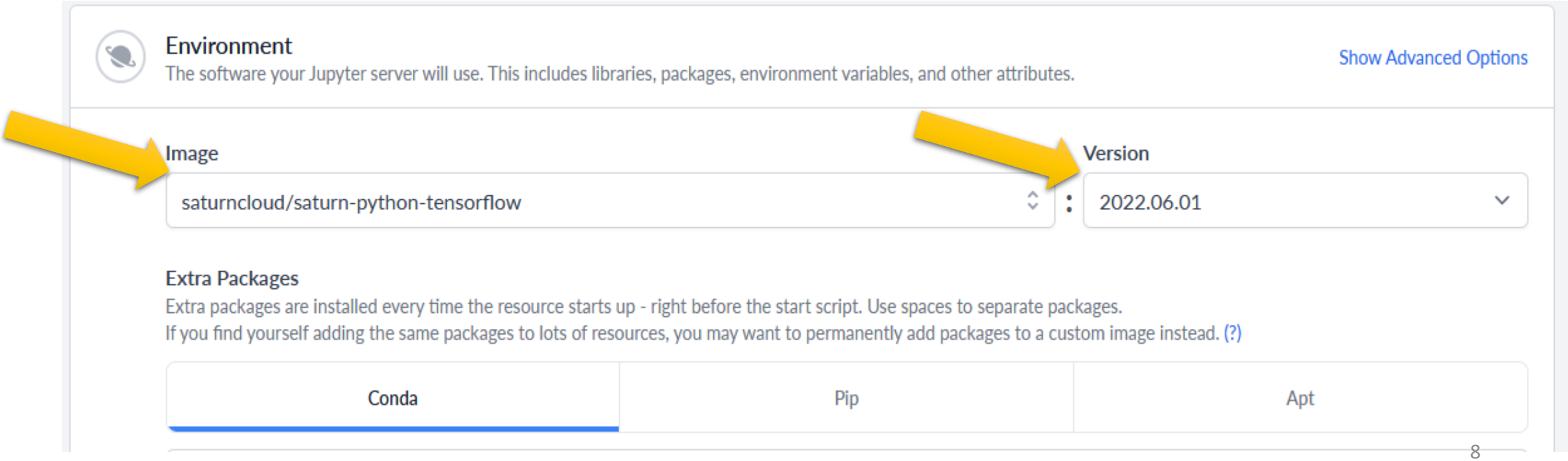
2- Server Parameters 2/4

- Select CPU or **GPU** ressources



2- Server Parameters 3/4

- Select the desired image : saturncloud/saturn-python-tensorflow for GPU
- For version, use the 2022.06.01 or, if not available, the latest available

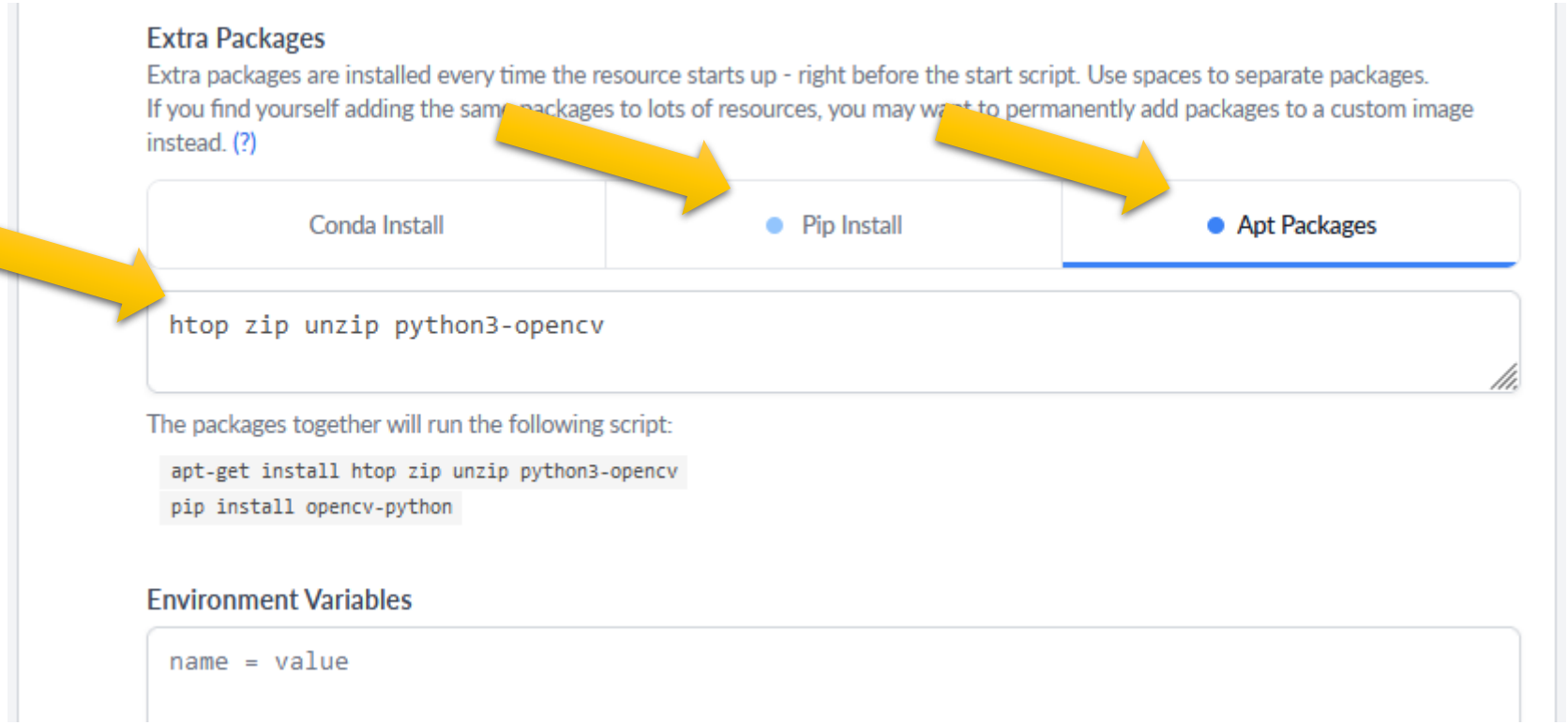


2- Server Parameters 4/4

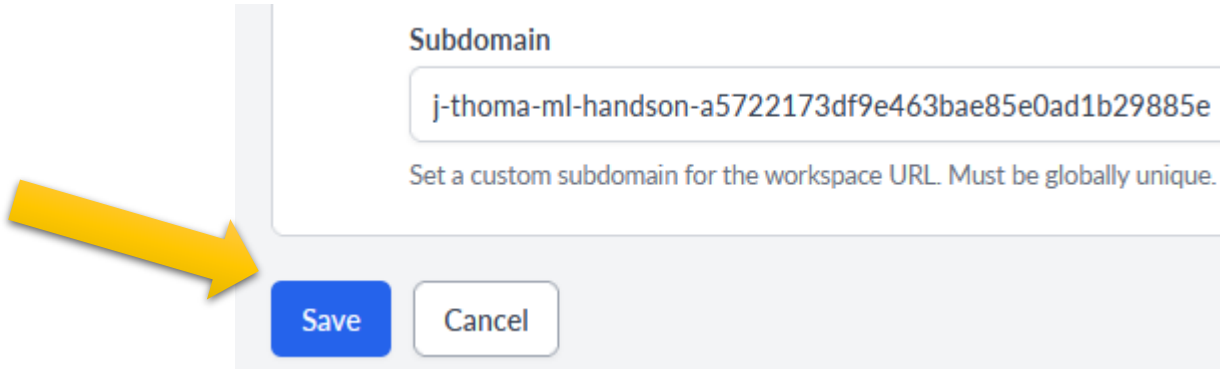
→ Pip Install, add the following
opencv-python

→ Apt Packages add the following
htop zip unzip python3-opencv

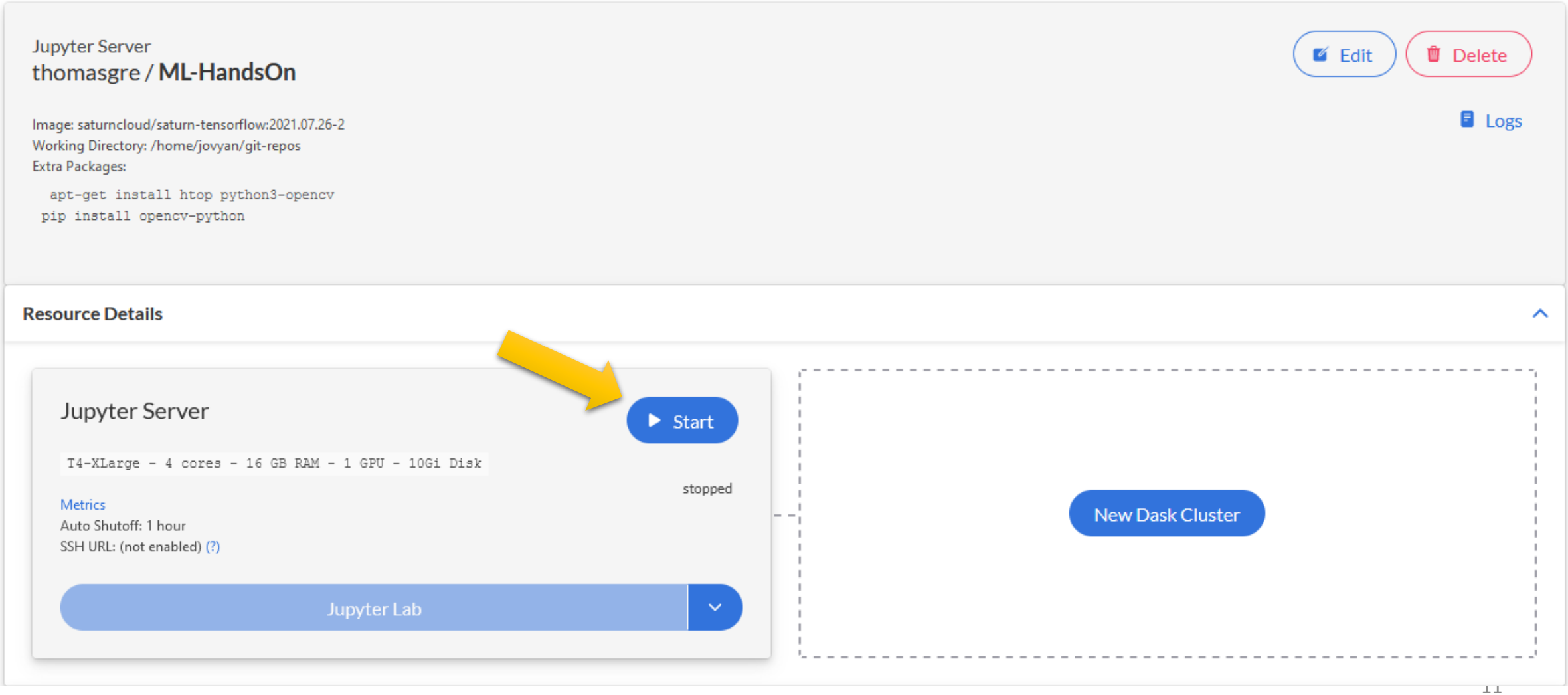
Both must be done



2- Server Parameters : Save

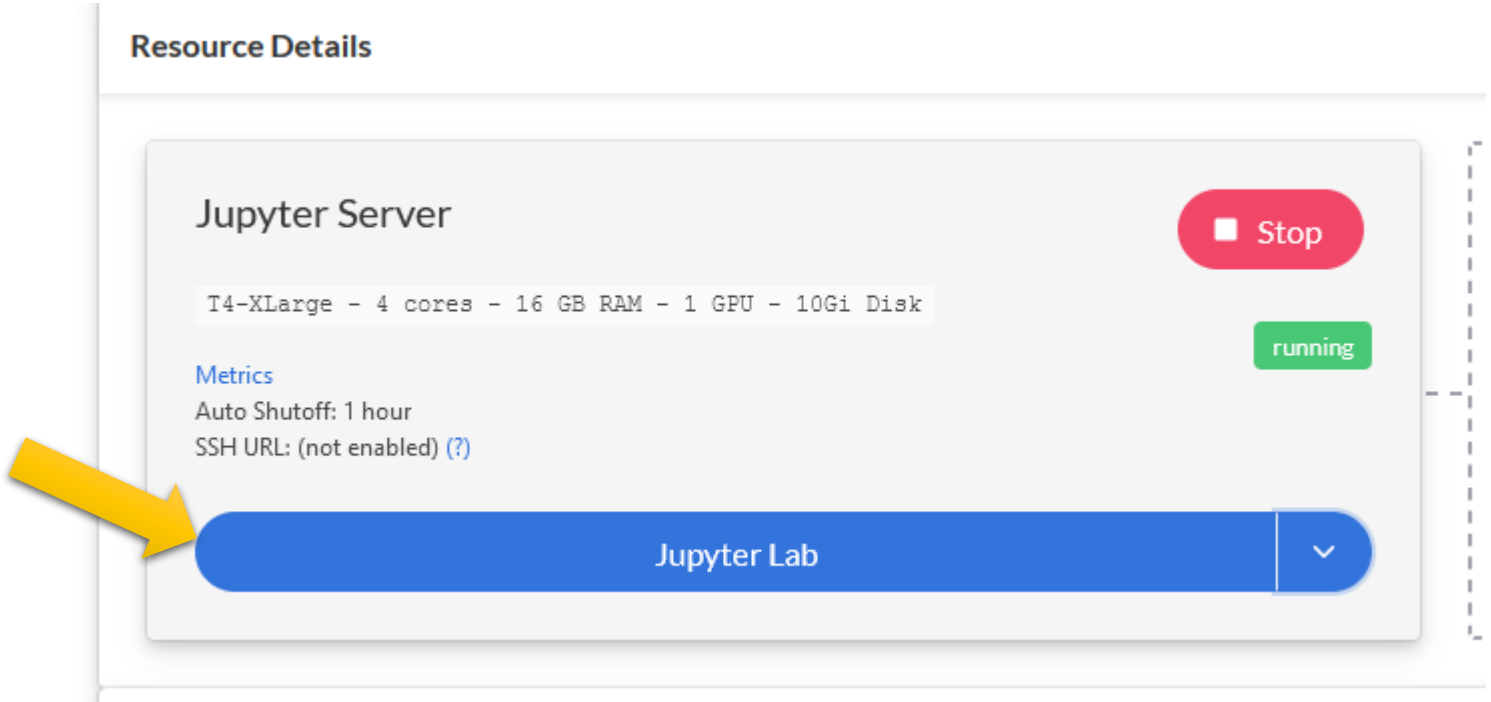


3- Start the jupyter server (few minutes)

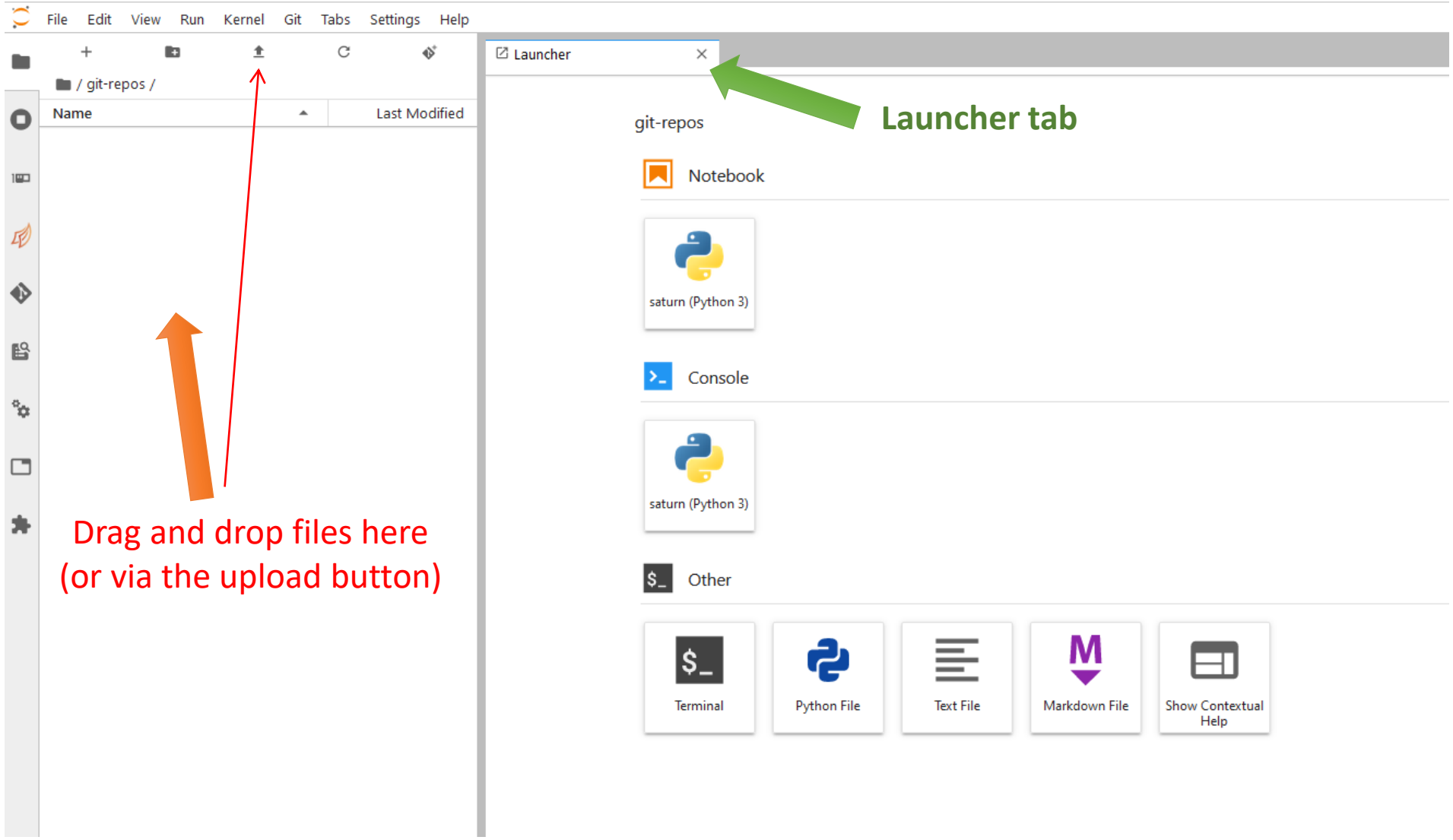


4- Launch the Jupyter lab environnement

- First, wait until the server is started ☺



5- Enjoy your Hands on (in a new tab)



Hands-on with , download zip files :

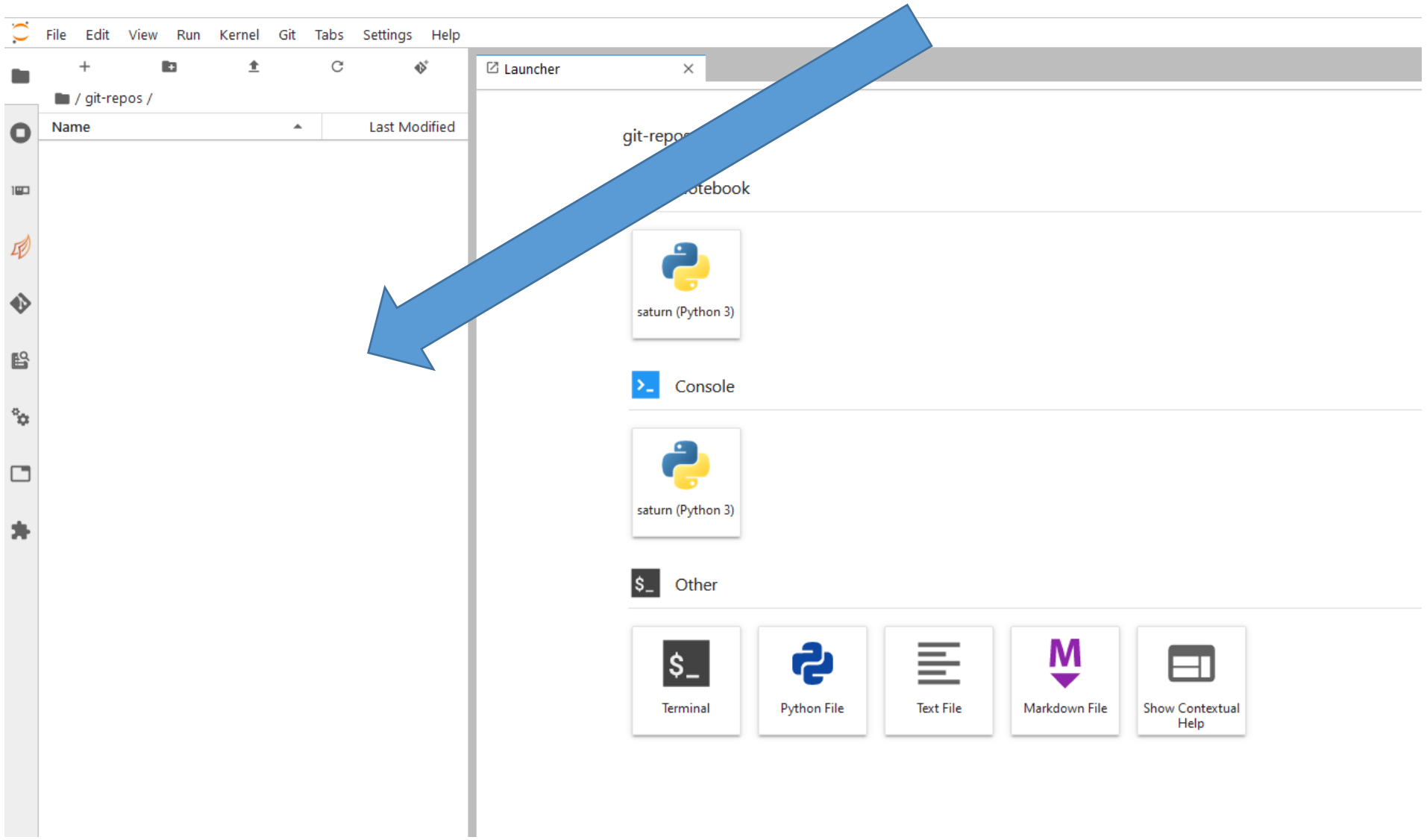
Classification (GPU recommended):

https://gitlab.in2p3.fr/thomas.grenier/tp1ss_classification/-/raw/master/TP_Classification_v03.zip

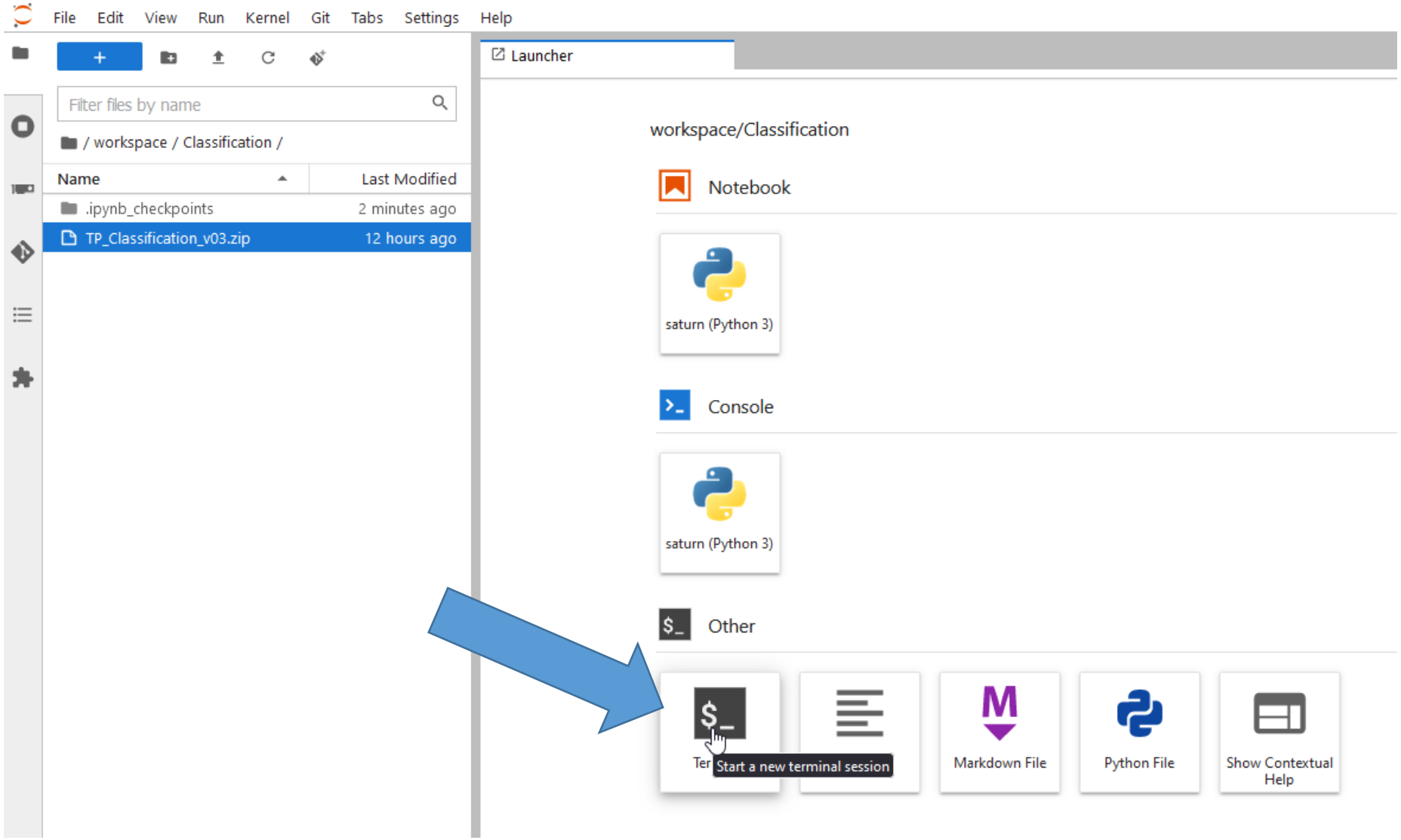
Segmentation (GPU needed):

https://gitlab.in2p3.fr/thomas.grenier/tp4ss_segmentation/-/raw/master/TP_Segmentation_v03.zip

Drag and drop zip file in the **file broswer area**

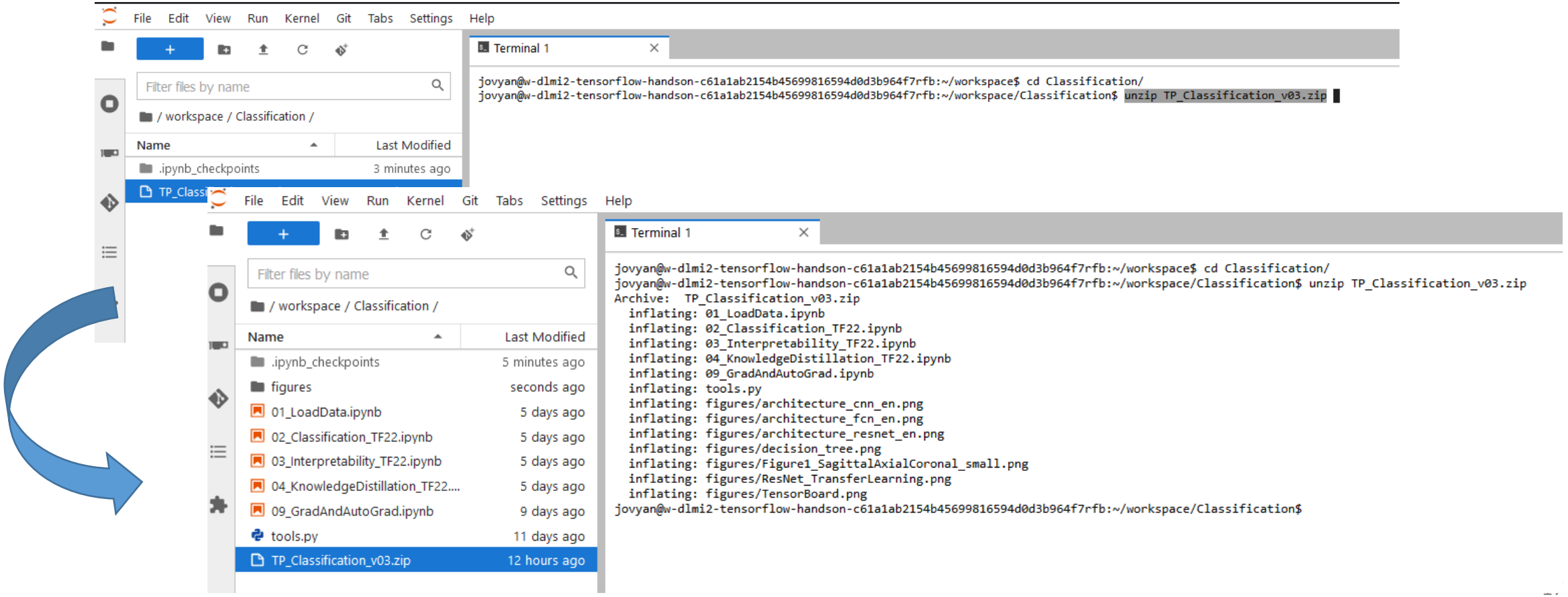


Open a Terminal



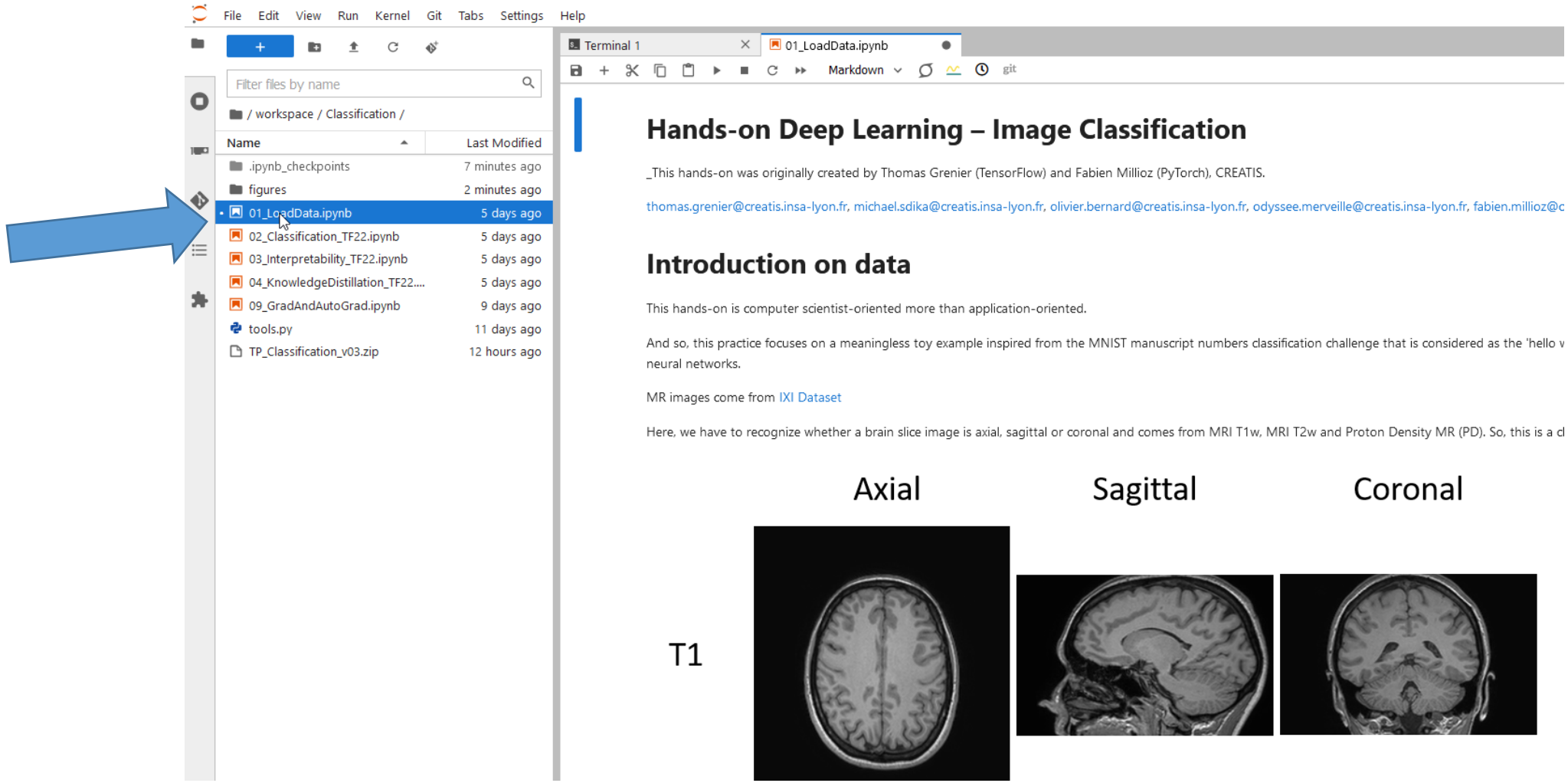
Unzip the material

Enter the command line: unzip TP_Classification_v03.zip
then « enter »



Select and open the desired notebook

As example, double clic on : 01_LoadData.ipynb



Cells and running

- Notebooks are made of cells : can be text or python code
- To go to next cell use the play button or « shift+enter »