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# Applied Data Science with Python

Lab Guide



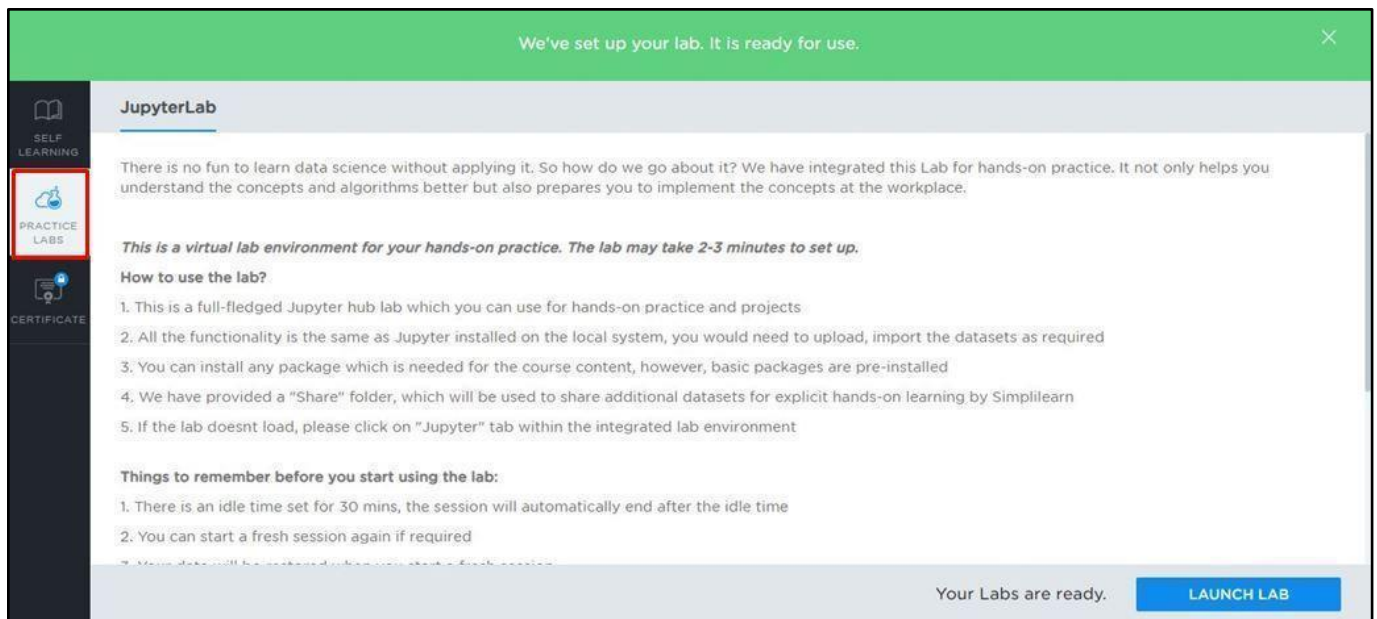
**Note: The lab gets reset every 15 days. Make sure you save files before that.**

This section will guide you to:

- Use labs for executing all the demos included in this course

### Step 1:

- Login to the Simplilearn LMS
- Click on the **"PRACTICE LABS"** tab on the left panel



The screenshot displays the JupyterLab interface. At the top, a green banner reads "We've set up your lab. It is ready for use." with a close button. On the left sidebar, the "PRACTICE LABS" tab is highlighted with a red box. The main content area is titled "JupyterLab" and contains the following text:

There is no fun to learn data science without applying it. So how do we go about it? We have integrated this Lab for hands-on practice. It not only helps you understand the concepts and algorithms better but also prepares you to implement the concepts at the workplace.

*This is a virtual lab environment for your hands-on practice. The lab may take 2-3 minutes to set up.*

**How to use the lab?**

1. This is a full-fledged Jupyter hub lab which you can use for hands-on practice and projects
2. All the functionality is the same as Jupyter installed on the local system, you would need to upload, import the datasets as required
3. You can install any package which is needed for the course content, however, basic packages are pre-installed
4. We have provided a "Share" folder, which will be used to share additional datasets for explicit hands-on learning by Simplilearn
5. If the lab doesn't load, please click on "Jupyter" tab within the integrated lab environment

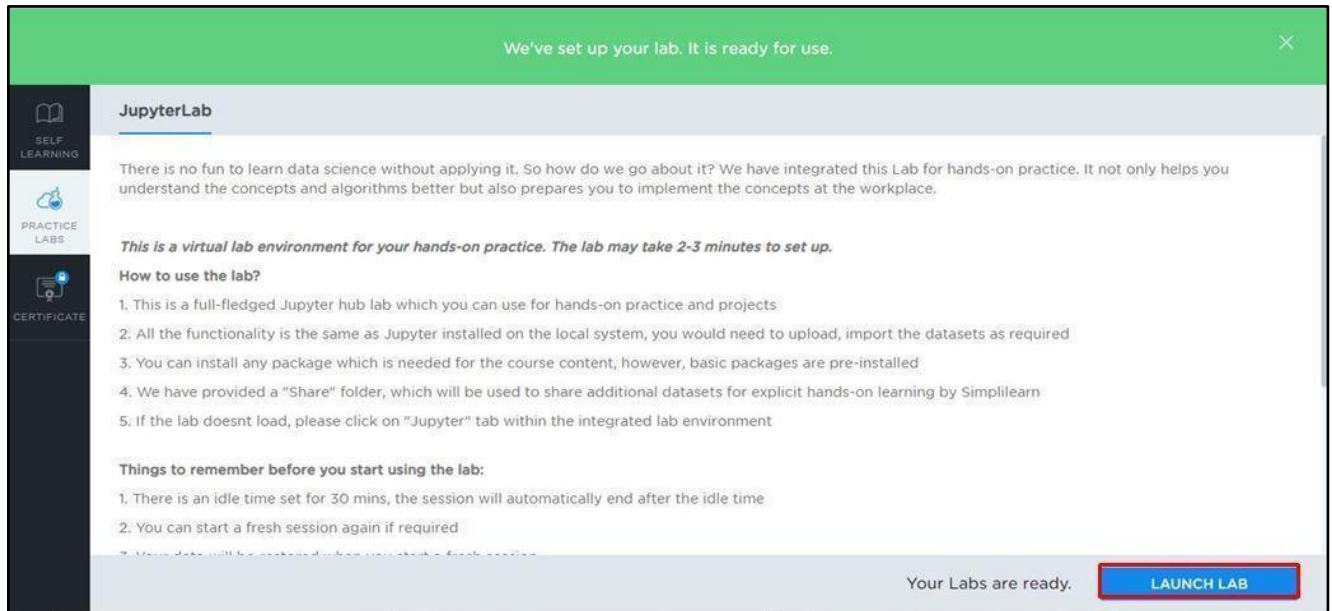
**Things to remember before you start using the lab:**

1. There is an idle time set for 30 mins, the session will automatically end after the idle time
2. You can start a fresh session again if required
3. Your data will be reset after every session

At the bottom right, it says "Your Labs are ready." next to a blue "LAUNCH LAB" button.

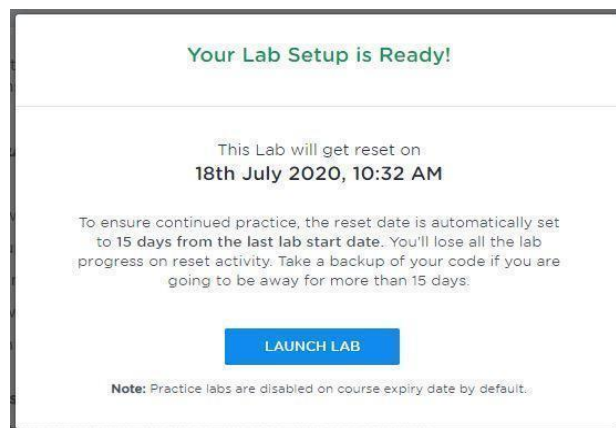
## Step 2:

- Click on the **“LAUNCH LAB”** button at the bottom right



## Step 3:

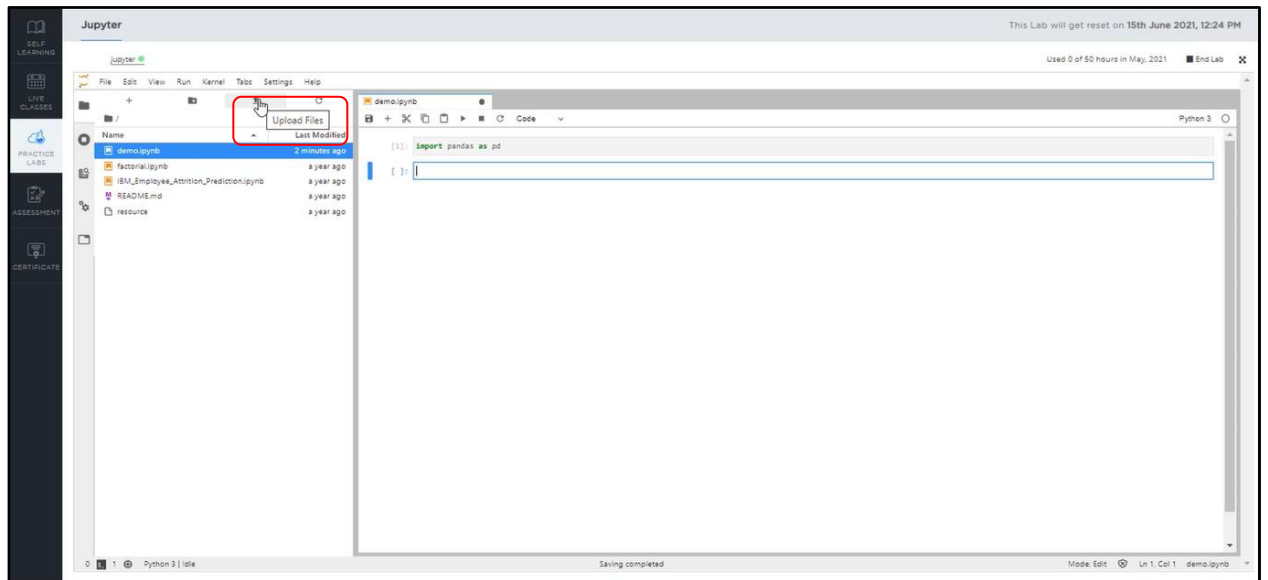
- Now, a small screen will pop up in the middle of your screen with important information about the lab. Click on the **“LAUNCH LAB”** button again



- It will lead to a full-fledged **Jupyter Notebook environment** and you can use that according to your convenience.

#### Step 4:

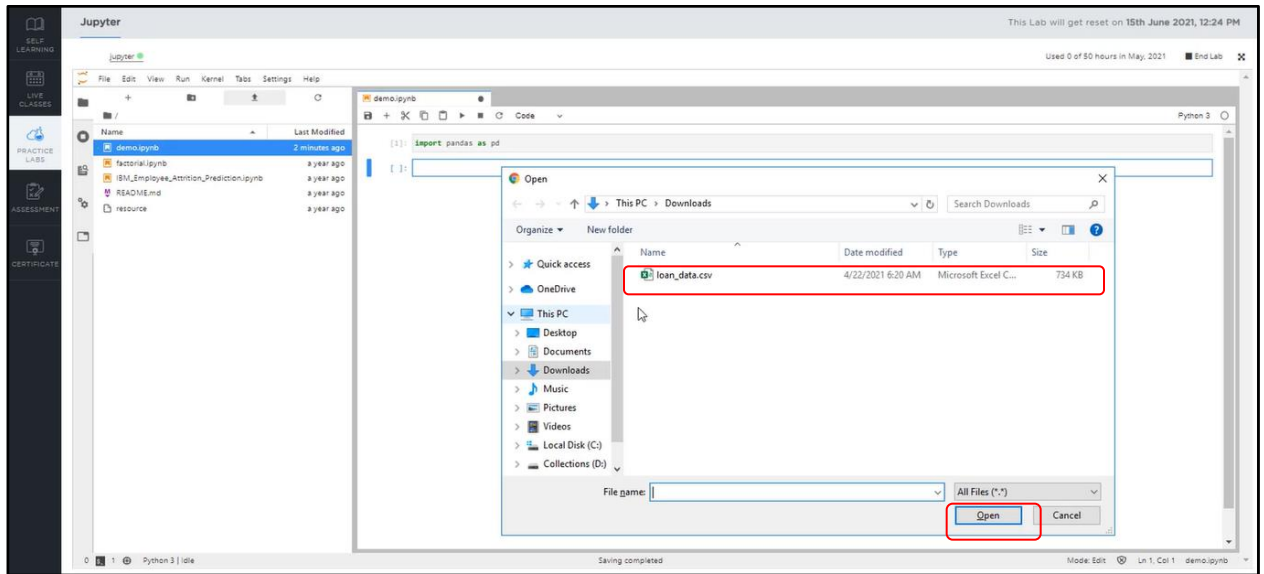
- To upload the dataset in the Jupyter Lab, click on the **“Upload Files”** icon



**Note:** Download the datasets from the Course Resource section

#### Step 5:

- Click on the dataset to be uploaded from the local system and click on **“Open”**



## Step 6:

- Check on the left side whether the file is uploaded in the lab and run the script to extract the data

