

Setting up AWS Sagemaker Studio Lab

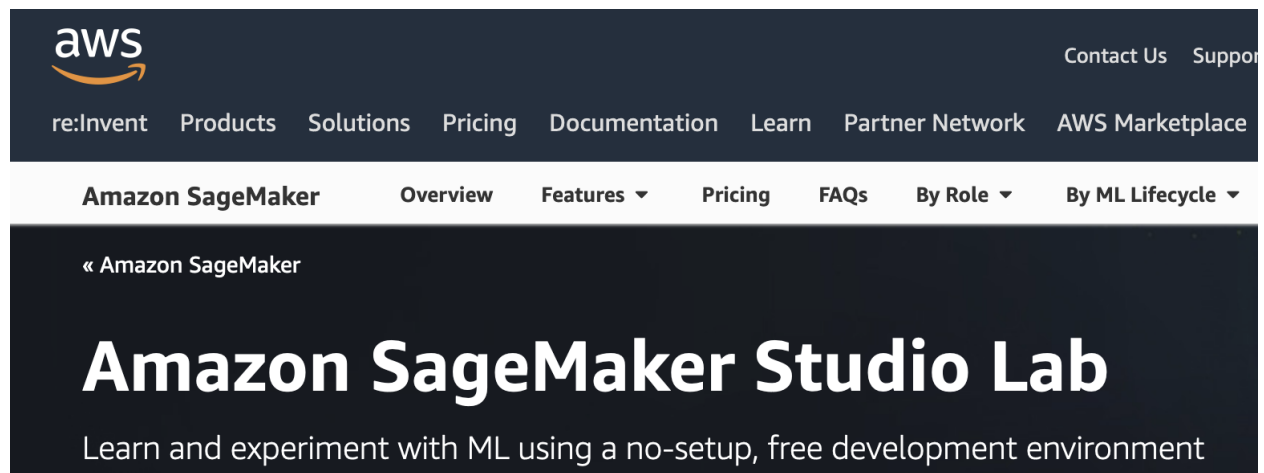
Austin Lasseter
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Introduction

Amazon Sagemaker Studio Lab is a powerful tool that's now available for free to data scientists and machine learning engineers. Signing up is easy and doesn't require anything more than an email.

ASM Studio Lab is full of really amazing materials. It's a free and easy way to start using the same industry-leading tools that are used by professional engineers and data scientists. Once you've completely mastered the free environment, you may want to upgrade to the full Amazon Sagemaker set of tools, but this can be expensive and time-consuming. Sagemaker Studio Lab is a great way to get started risk-free.

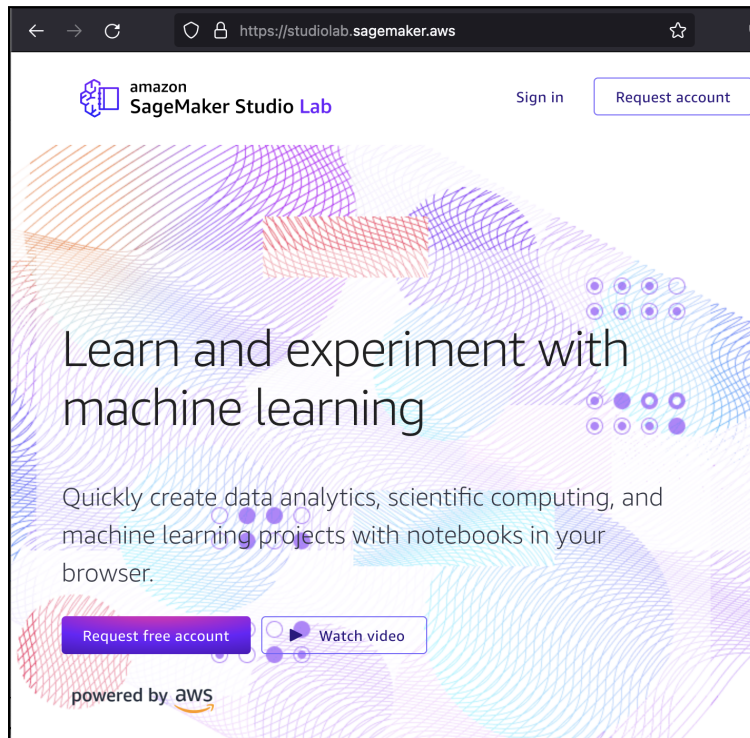
You can read more about it here: <https://aws.amazon.com/sagemaker/studio-lab/>



Part 1. Getting Started

Navigate to the home page: <https://studiolab.sagemaker.aws/>

Click “Request free account”



Fill out all the appropriate information. Where it says “Enter referral code” use the following.
Note: this code is unique to our class (January 2023) and is provided by the staff at Amazon.

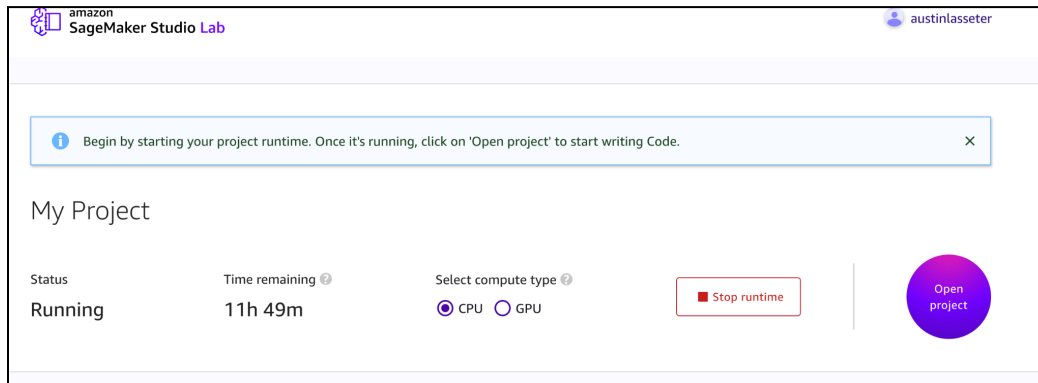
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A screenshot of the account request form. It contains a dropdown menu with the text 'Why are you interested in Amazon SageMaker Studio Lab?'. Below this is a text input field with the placeholder 'Enter referral code'. At the bottom is a large blue button labeled 'Submit request'.

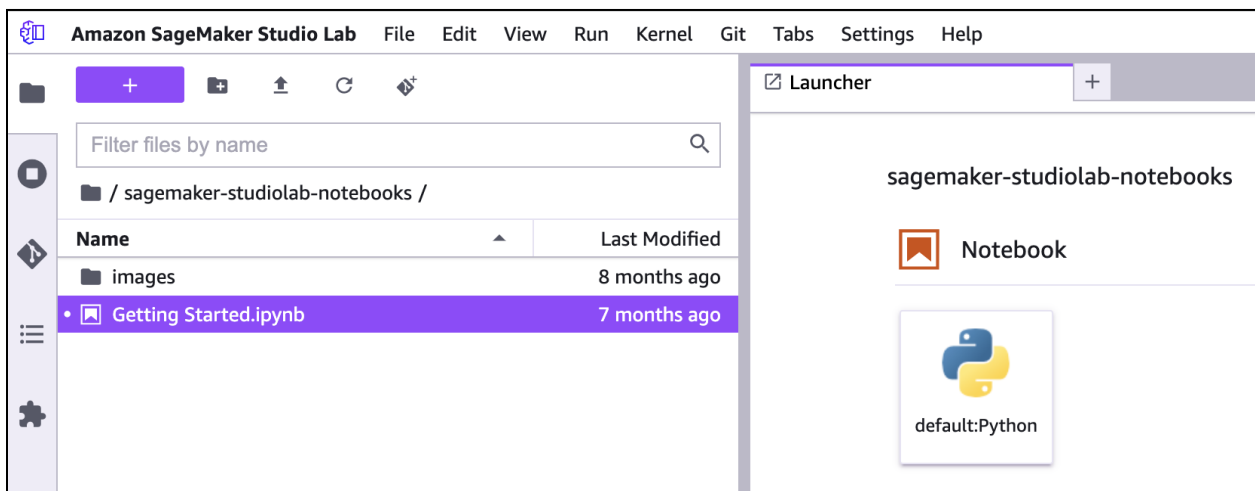
Once you hit “submit request” you should immediately receive a notification via email with your account details. Use this link to log in.

Part 2. Log into your account

Log into the ASM Studio Lab console and open your project (the big purple button). Compute type should be “CPU”. The first time you do this it will ask you to verify with a cell phone.

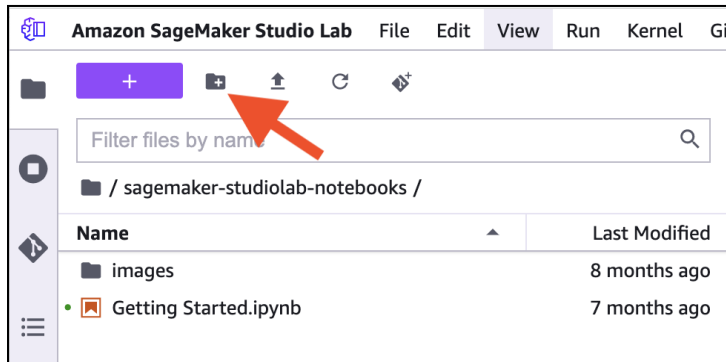


It will open a new tab called “JupyterLab”. You can read more about JupyterLab [here](#). It should look something like this:

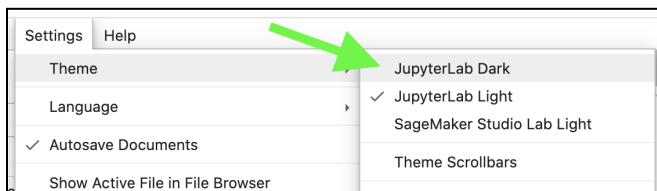


In the top left corner, click on the folder icon and create the following folder structure:

- sagemaker-studiolab-notebooks
- ga-data-science
 - lectures
 - projects

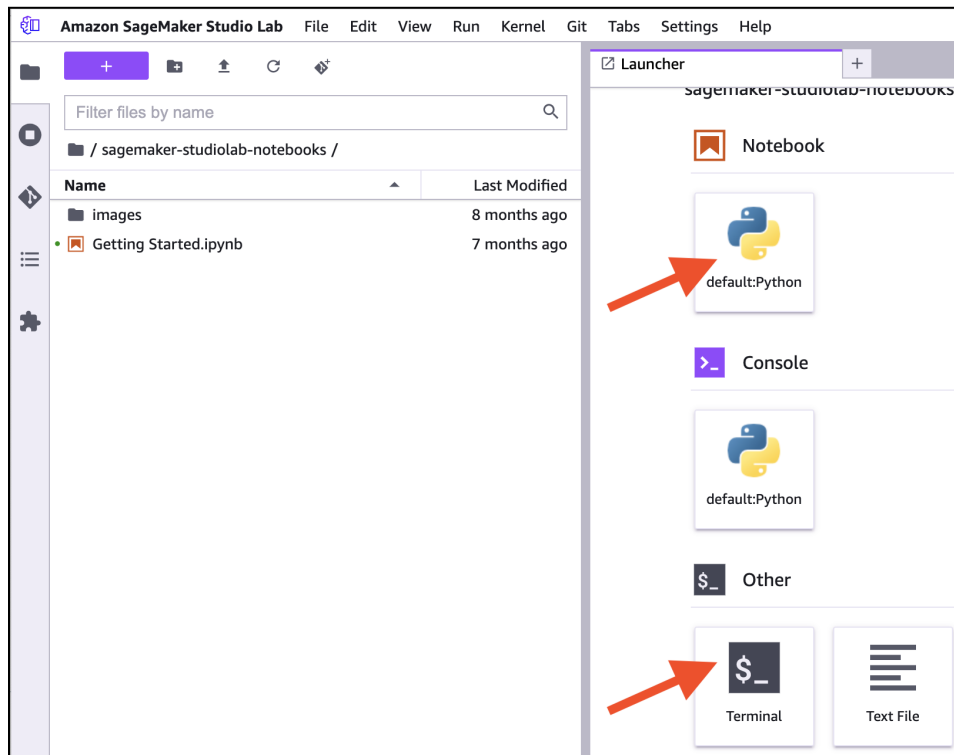


You may want to update your theme colors as follows (this is optional)



Feel free to play around with the “Getting Started” notebook (but note that it contains a lot of info, probably more than you need for today’s class).

Try experimenting with creating new tabs as follows:



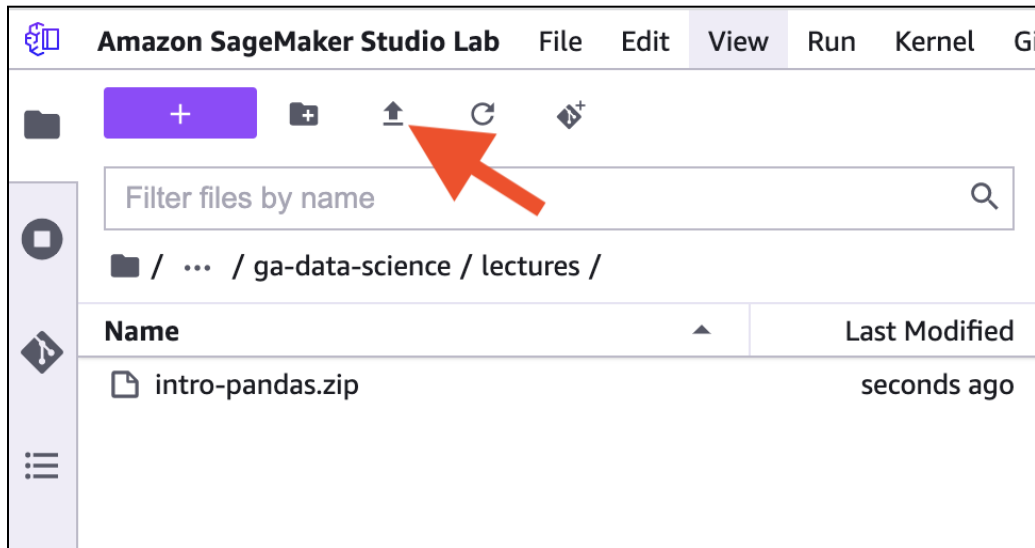
Notebooks are used for writing and running code using Jupyter Notebooks with Python.

Terminal is used for managing your files and folders.

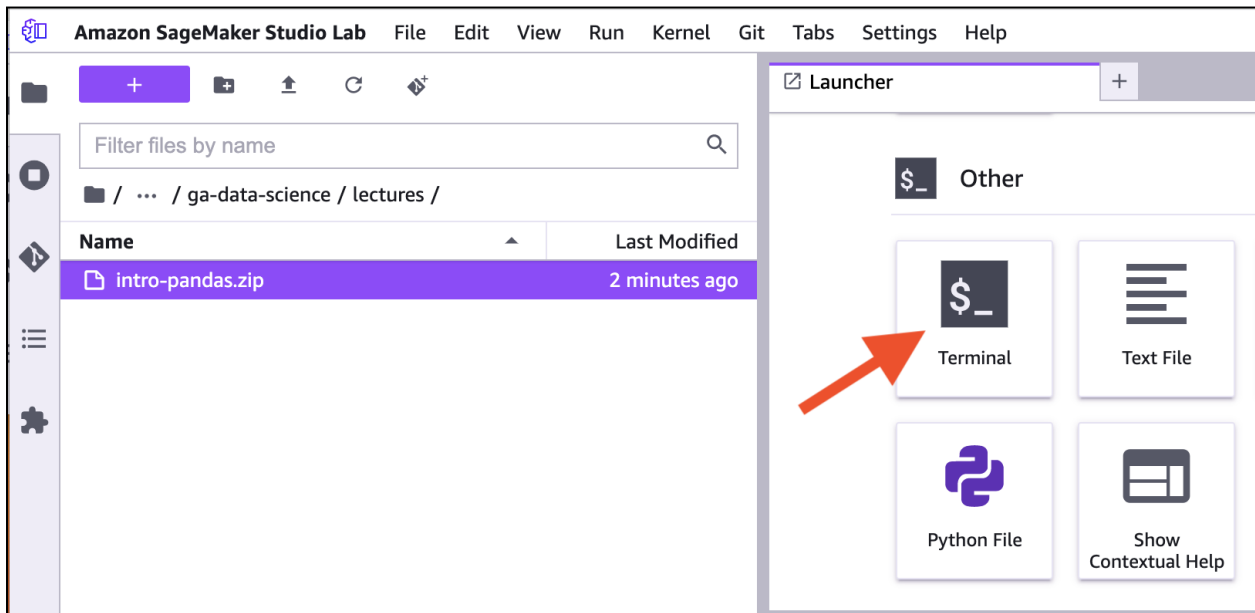
Python is used for writing scripts (this is less common).

Part 3. Add the lecture materials

In Slack, I've shared a zip file called "intro-pandas.zip". Download this to your laptop. Now upload the same zip file to Sagemaker Studio Lab using the up-arrow icon (make sure to place it in the new "lectures" folder that you created in the previous exercise).



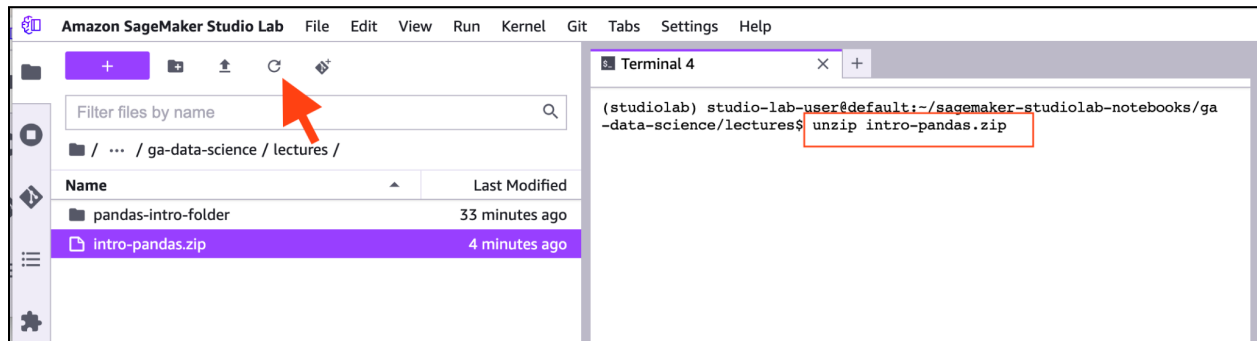
Using the Launcher tool, open a new Terminal window.



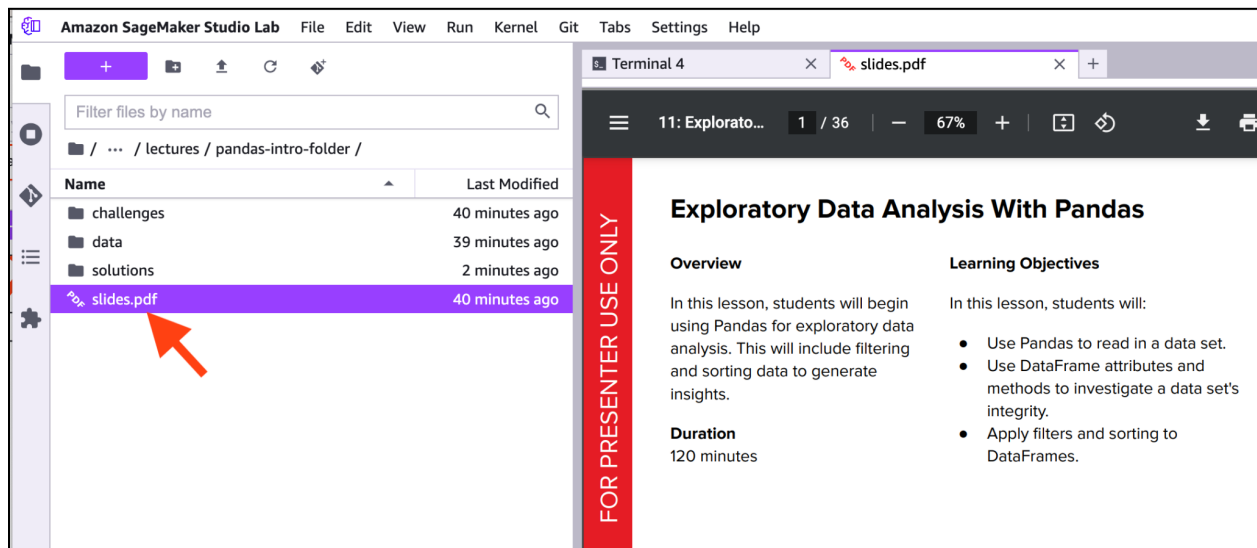
In the new terminal window, type the following command:

```
unzip intro-pandas.zip
```

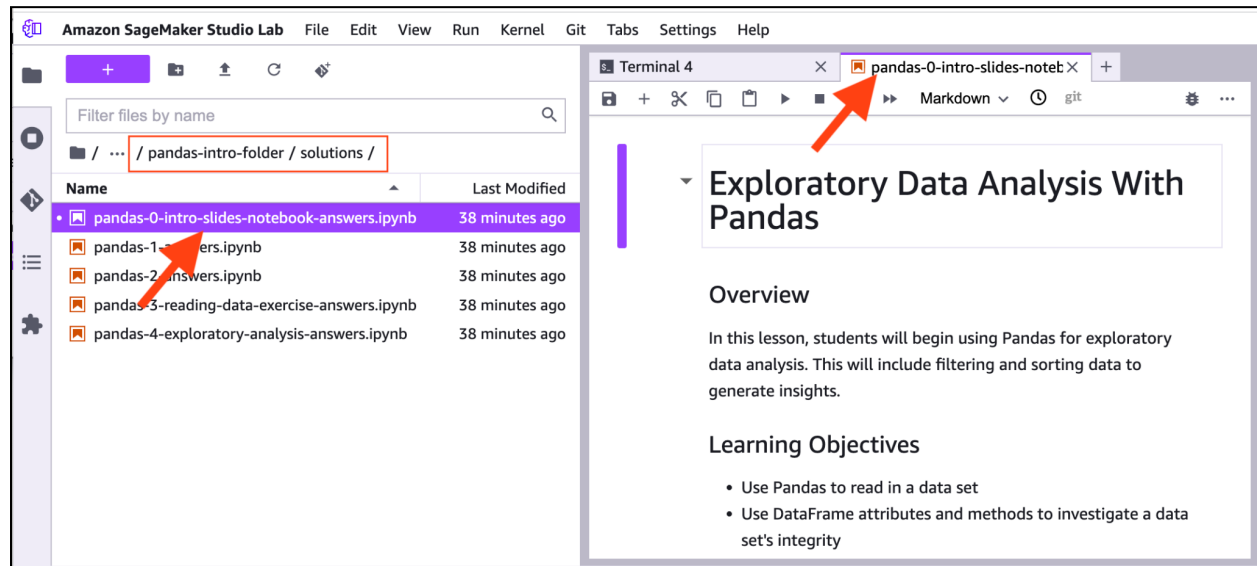
You'll see that this immediately creates a new folder (you may need to refresh using the circle-arrow button for this to appear quickly).



Click on the folder, and you'll see all the materials for today's lesson. Double-click the slides to open a PDF for today's lesson.



Now, navigate to the “solutions folder” and double-click the file “pandas-0-intro” to open a new notebook.



At this point, you should be ready to go!