

To launch a jupyter notebook from anaconda prompt, simply type jupyter notebook (Make sure you conda activate AIBootcamp before you launch jupyter).

```
Anaconda Prompt (Anaconda3) - jupyter notebook

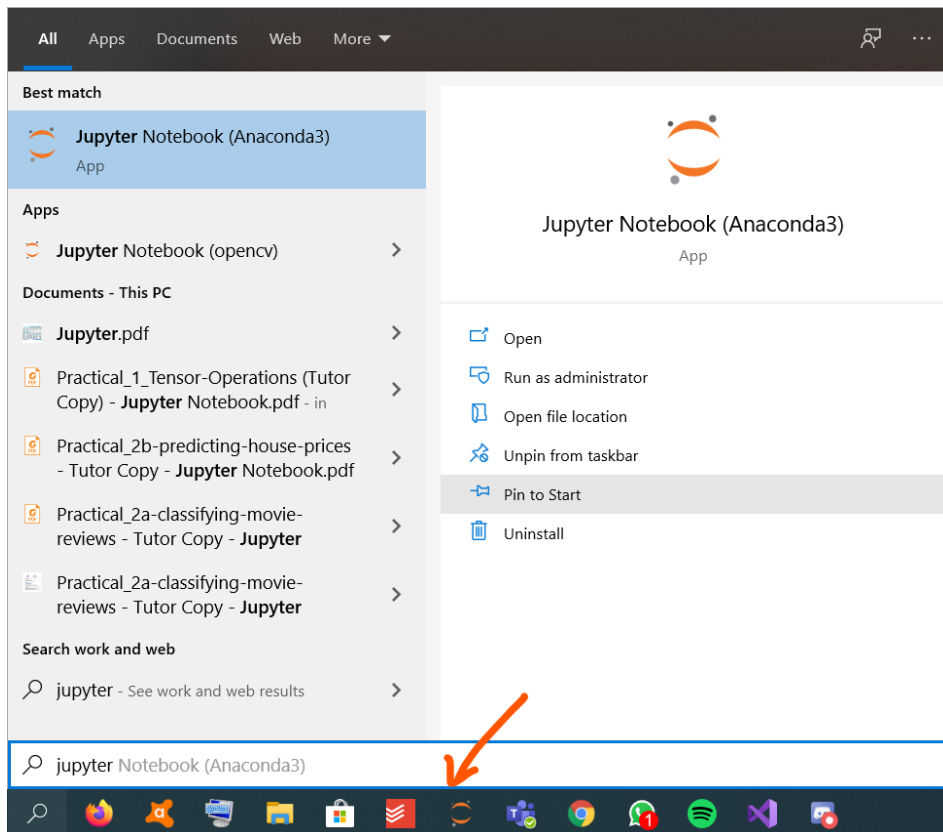
(base) C:\Users\maste>jupyter notebook
[I 11:45:42.562 NotebookApp] JupyterLab extension loaded from D:\Users\maste\Anaconda3\lib\site-packages\jupyterlab
[I 11:45:42.562 NotebookApp] JupyterLab application directory is D:\Users\maste\Anaconda3\share\jupyter\lab
[I 11:45:42.565 NotebookApp] Serving notebooks from local directory: C:\Users\maste
[I 11:45:42.565 NotebookApp] The Jupyter Notebook is running at:
[I 11:45:42.565 NotebookApp] http://localhost:8888/?token=b0caa43624b939b45cf7204c123d0bdf9c24a93877743638
[I 11:45:42.565 NotebookApp] or http://127.0.0.1:8888/?token=b0caa43624b939b45cf7204c123d0bdf9c24a93877743638
[I 11:45:42.565 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 11:45:42.666 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/maste/AppData/Roaming/jupyter/runtime/nbserver-11000-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=b0caa43624b939b45cf7204c123d0bdf9c24a93877743638
or http://127.0.0.1:8888/?token=b0caa43624b939b45cf7204c123d0bdf9c24a93877743638
```

It should open this page in your default browser.



Alternatively, you can create a shortcut in your taskbar (Pin to start)--you guys **should select the Jupyter Notebook(AIBootcamp)** one since you installed all the required packages in that environment.



To create a new notebook in a given directory click New > Python 3



## Dataset (for Day 2)

Non-zipped version (for colab):

<https://drive.google.com/drive/folders/1PL6LQfkSrxrBHBfdHxnGDJTbJqilAGU?usp=sharing>

Zipped version (for local download):

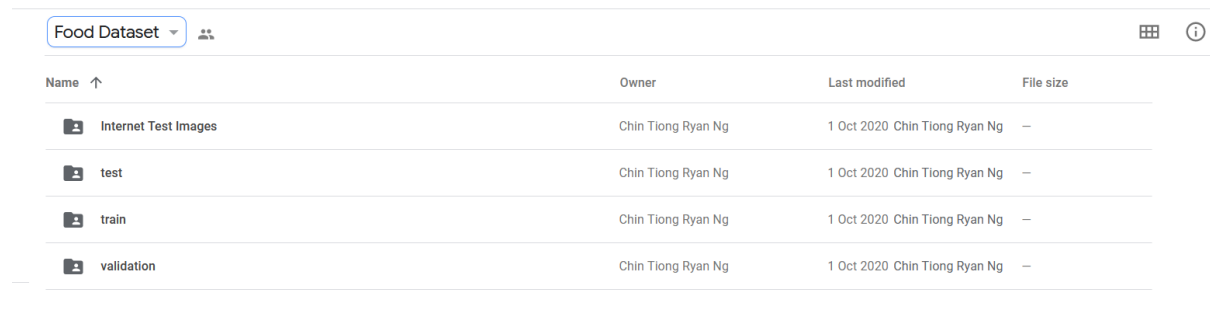
<https://drive.google.com/file/d/1L0-Z5MQx5FewsCsOc6YQVI89OBqvQxvo/view?usp=sharing>

To use colab, read on.

## Dataset Setup (colab only)

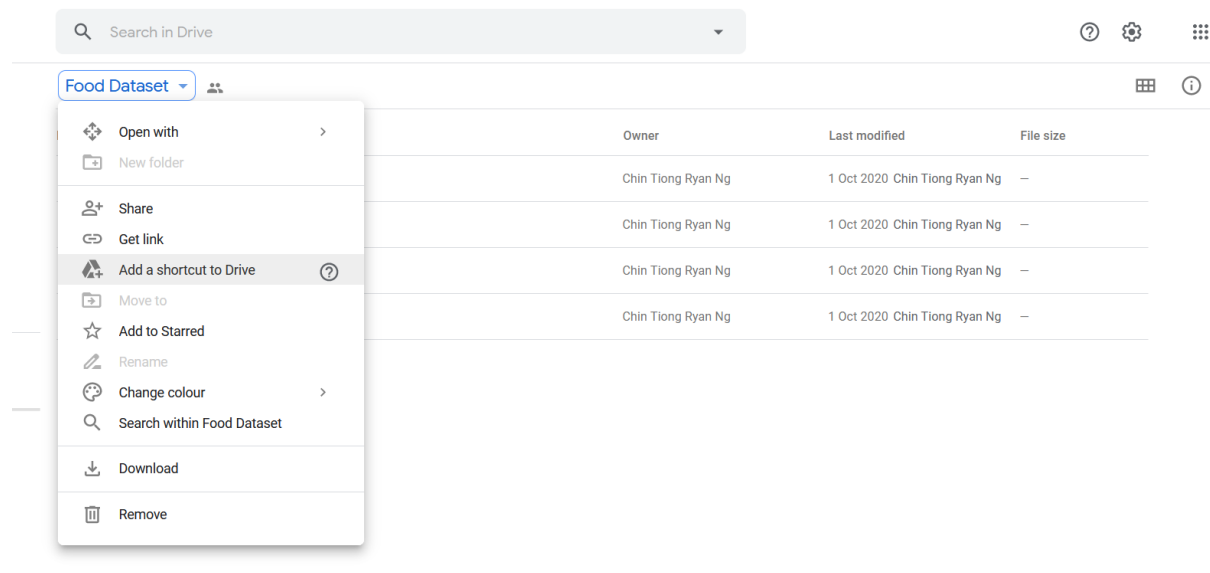
This is an optional step for those without GPUs. There will be an introduction and a brief demo about it on Day 2.

Click the link for the colab dataset above, it will direct you to this page.

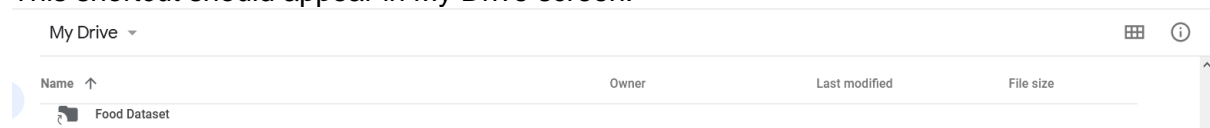


Name	Owner	Last modified	File size
Internet Test Images	Chin Tiong Ryan Ng	1 Oct 2020	Chin Tiong Ryan Ng
test	Chin Tiong Ryan Ng	1 Oct 2020	Chin Tiong Ryan Ng
train	Chin Tiong Ryan Ng	1 Oct 2020	Chin Tiong Ryan Ng
validation	Chin Tiong Ryan Ng	1 Oct 2020	Chin Tiong Ryan Ng

Click add a shortcut to drive.



This shortcut should appear in My Drive screen.

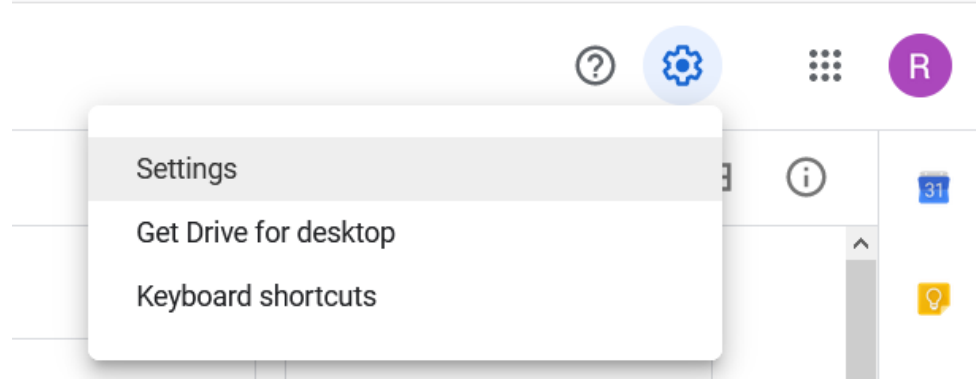


Name	Owner	Last modified	File size
Food Dataset			

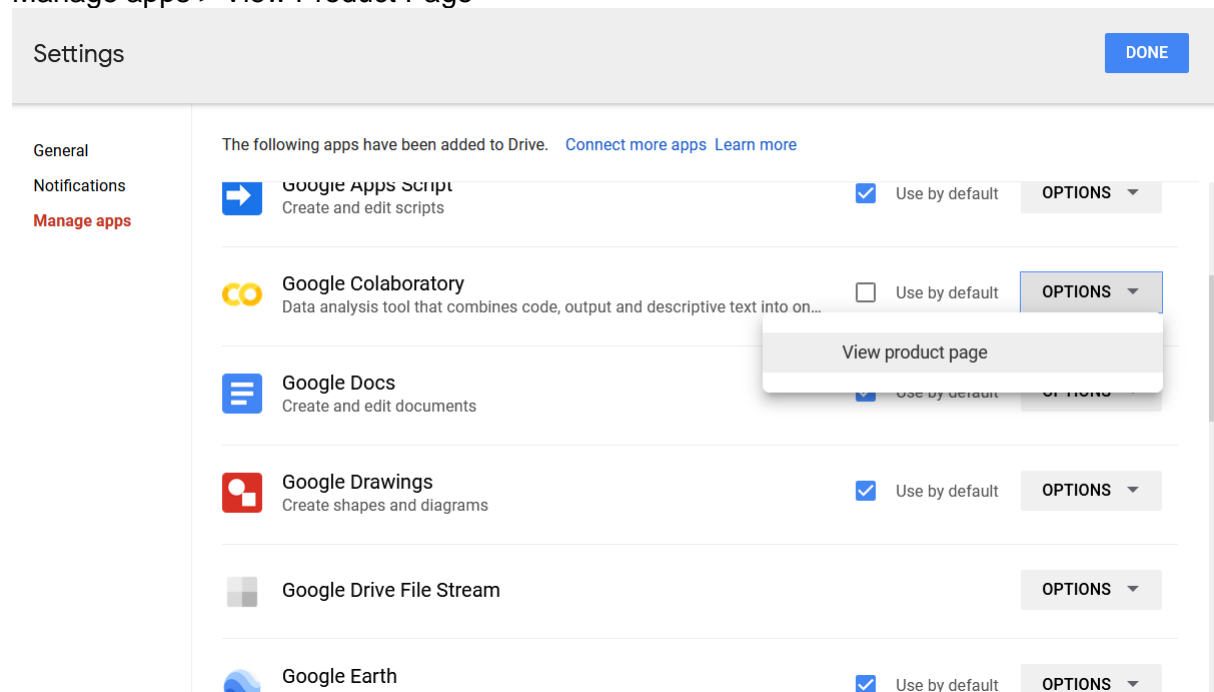
Upload the jupyter notebook given in My Drive and follow the steps below.

## Setting up colab

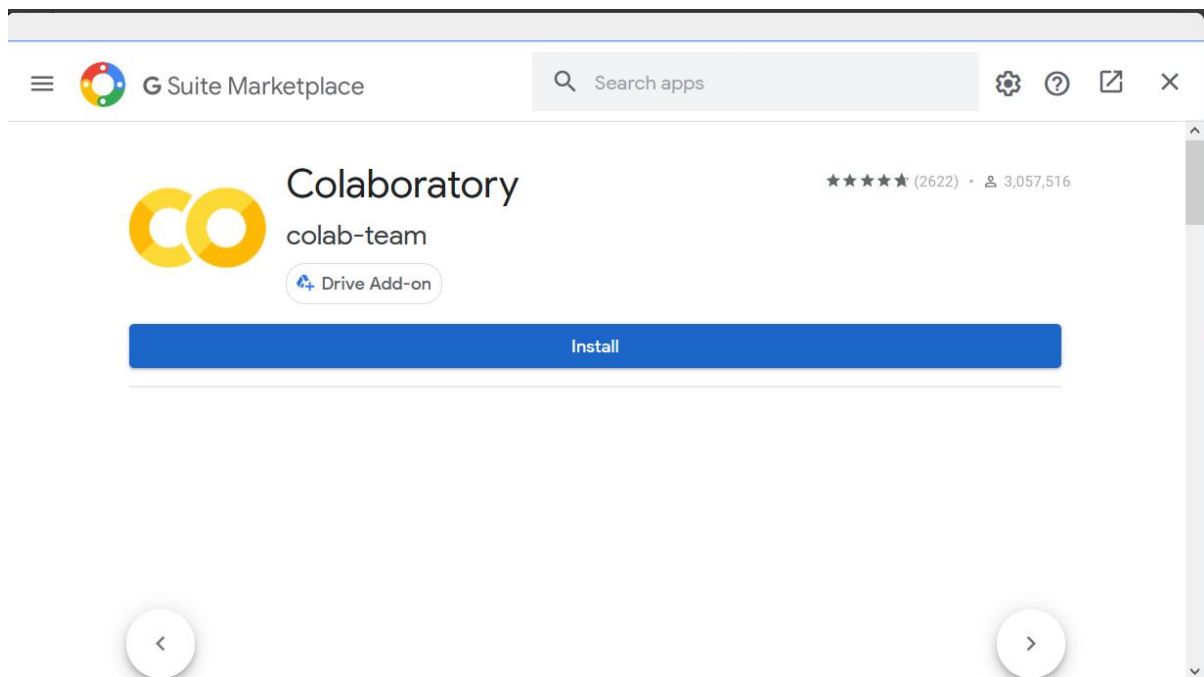
In Google Drive > Click Settings on the top right corner



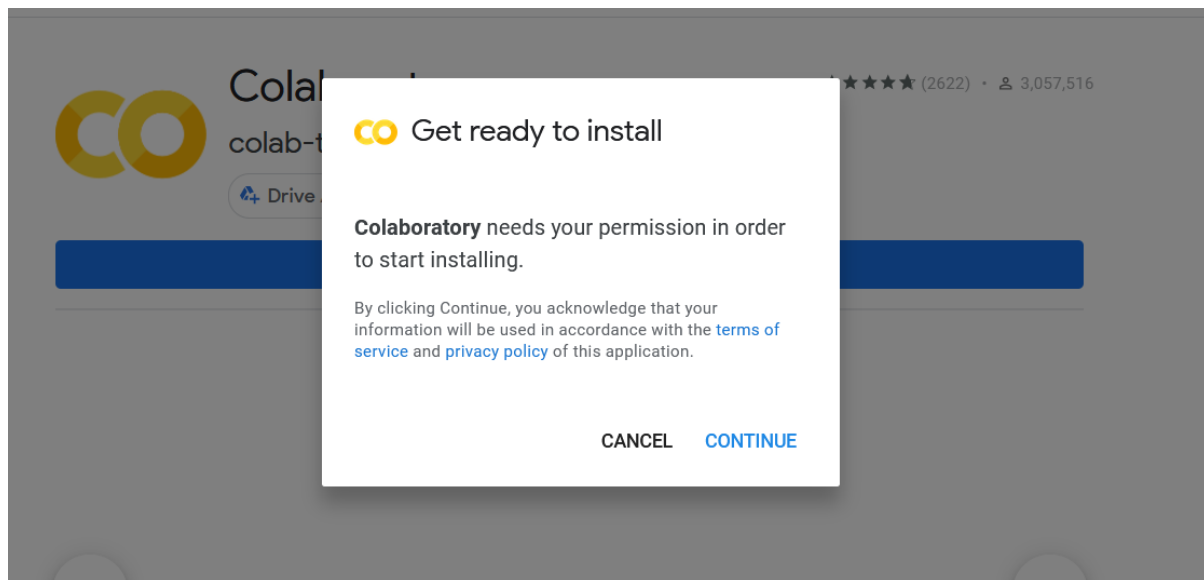
Manage apps > View Product Page



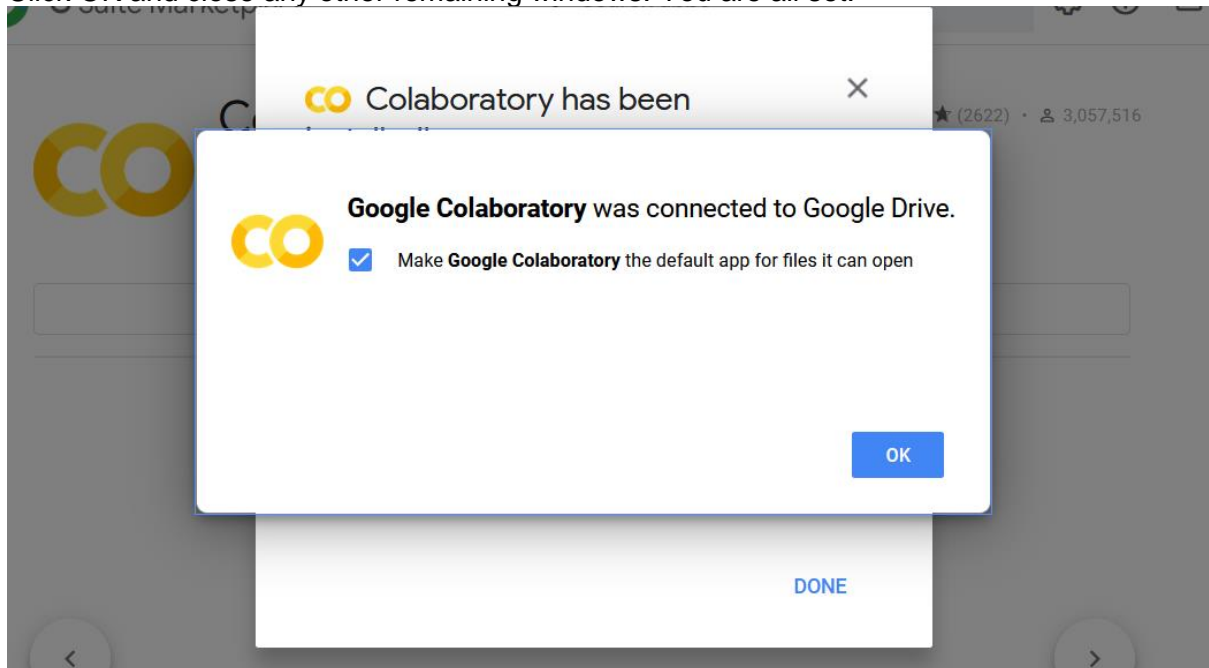
## Install



Continue. You will be prompted to sign in.



Click OK and close any other remaining windows. You are all set.



## Using Colab (for Day 2 Demo)

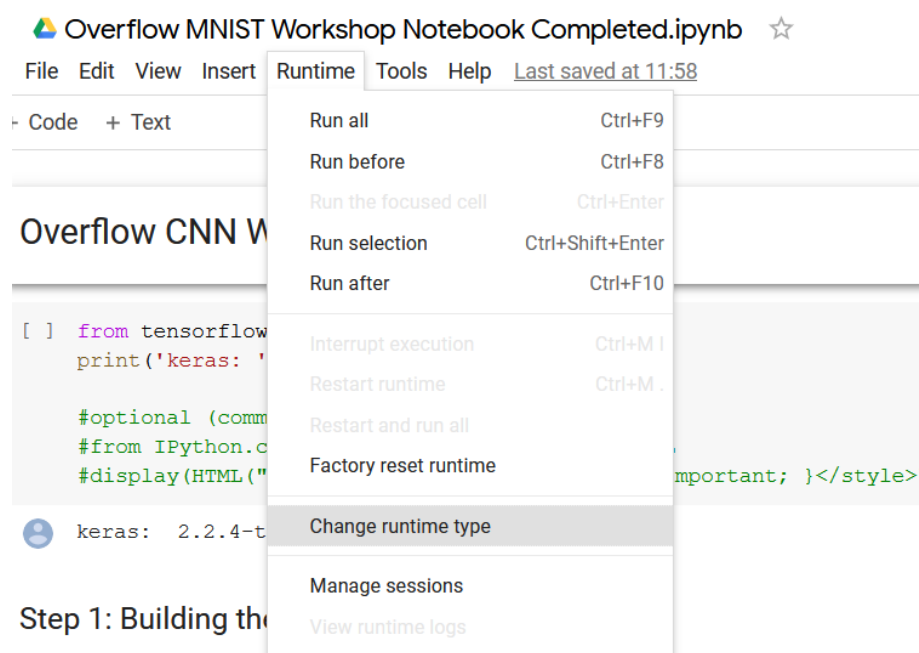
Notebook templates to be provided on the day itself.

Follow this guide for troubleshooting: <https://towardsdatascience.com/google-colab-import-and-export-datasets-eccf801e2971>

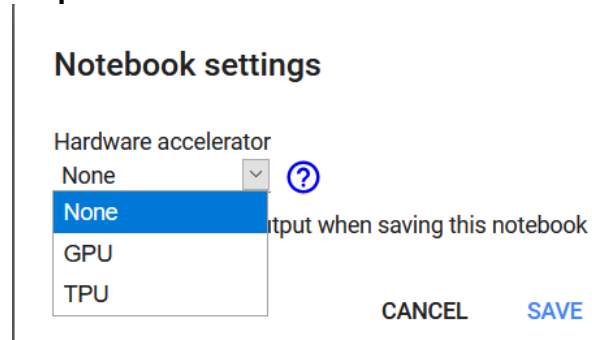
Reference video for getting started:  
<https://www.youtube.com/watch?v=inN8seMm7UI>

Every time you change the runtime (GPU/TPU/none) you will be prompted to re-enter authentication code.

### Step 1: Change Runtime type



### Step 2: Select GPU then save



### Step 3: Uncomment the colab paths and comment out the local path

For google colab. Make sure to change the path `/content/gdrive/My Drive/Food Dataset` based where you stored your folder in google drive (if you moved it). Note that trying to access the folder from "Shared with me" does not work so you will need to add a shortcut to `My Drive`.

```
[ ] from google.colab import drive
    drive.mount("/content/gdrive")
```

Mounted at /content/gdrive

```
[ ] base_dir = '/content/gdrive/My Drive/Food Dataset'
```

For host system. Change the pathing accordingly.

```
[ ] import os

#base_dir = 'C:/Users/maste/Desktop/DL/Food Dataset'
```

+ Code

+ Text

Running the first epoch of model training typically takes rather long (about 10 mins) even with GPU acceleration so please be patient. Thereafter training should average 13-15 sec per epoch. You may reduce the number of epochs from 10 to 5 or reduce the number of Conv Layers if you find it is too time consuming.