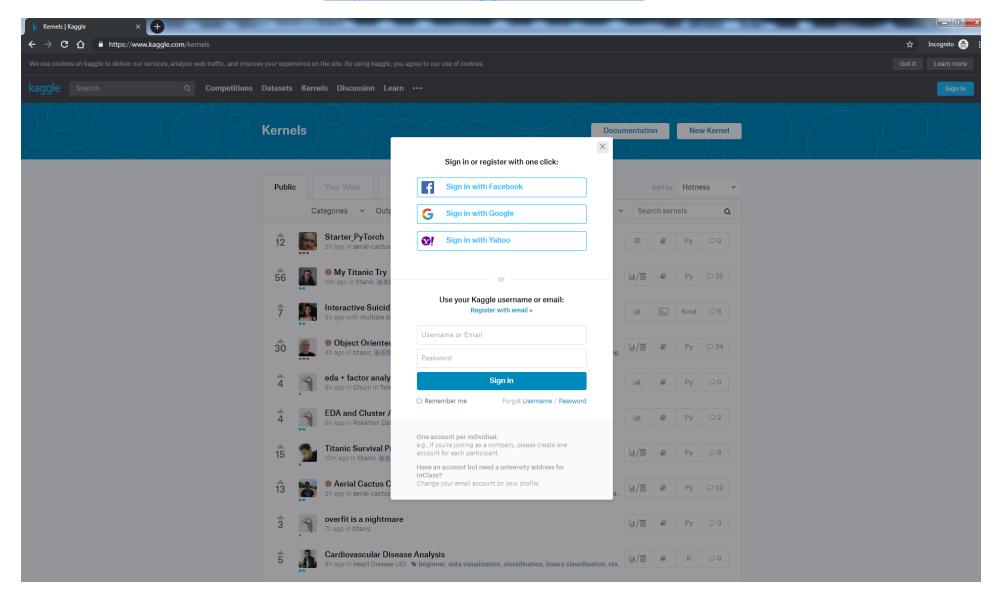
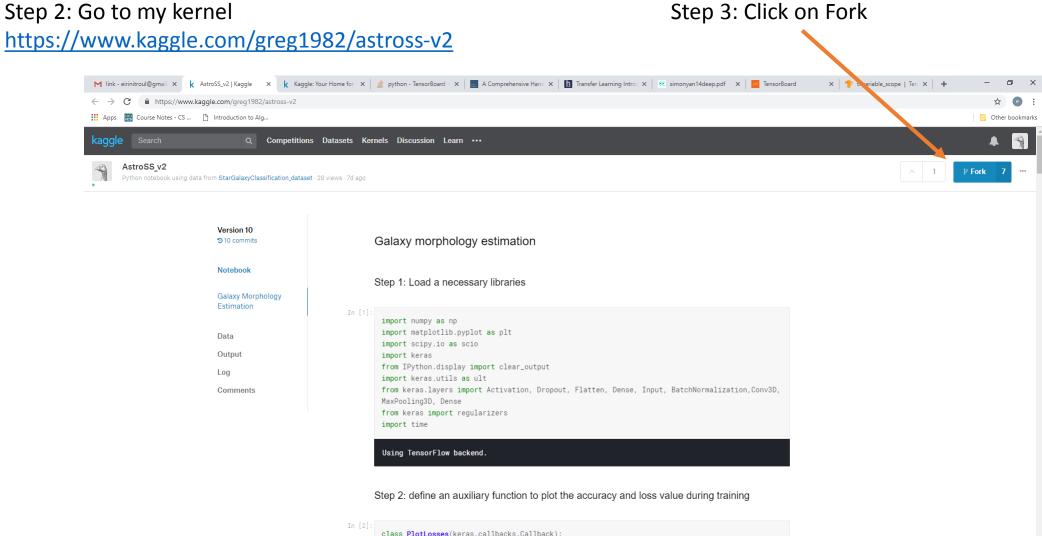
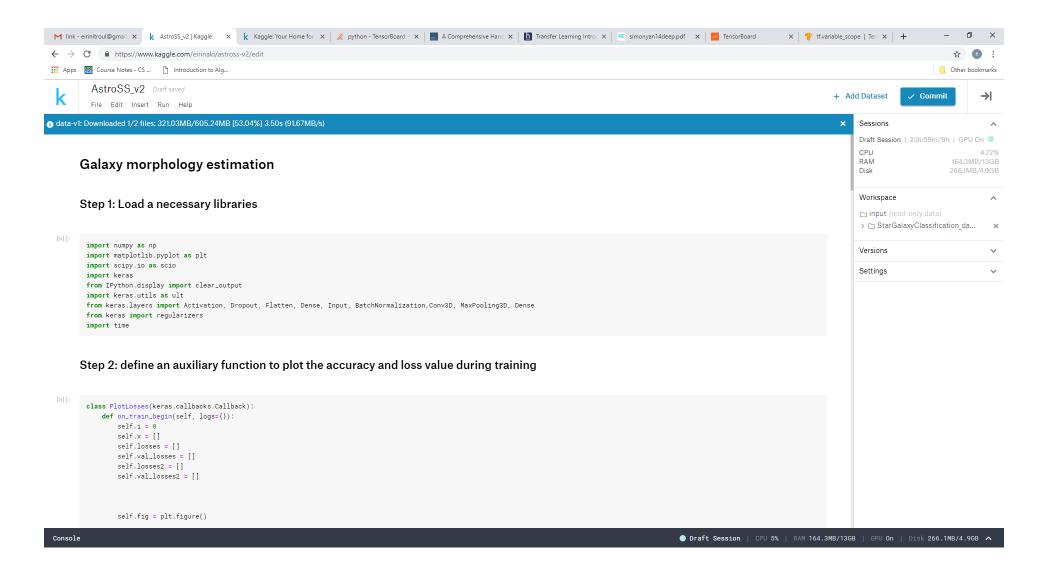
Step 1: login to Kaggle kernels https://www.kaggle.com/kernels





<pre>class PlotLosses(keras.callbacks.Callback):</pre>	
<pre>def on_train_begin(self, logs={}):</pre>	
self.i = 0	
<pre>self.x = []</pre>	
<pre>self.losses = []</pre>	
self val losses = []	

You should see something like this



Step 3: Click on Run -> Run all

M lin	c - eirinitroul@gmail. 🗙	< Astro	oSS_v2 Kaggle 🛛 🗙	k Kaggle: Your Home for 🗴 📄 python - TensorBoard - 🗴 📄 A Comprehensive Hand X 🛛 🗓 Transfer Learning Intro X 🛛 🗟 simonyan14deep.pdf 🛛 X 🛛 🚾 TensorBoard 🗤 X 🕇 🏌 tf.variable_	scope Ten: × +	. –	o ×			
$\leftarrow \rightarrow$	\leftrightarrow \rightarrow C a https://www.kaggle.com/eirinaki/astross-v2/edit									
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i data-	v1: Downloaded 1/2 file		Run current cell	4%] 3.50s (91.67MB/s)			^			
In[]:	Galaxy mor	44 1	Run all Run before	tion	Draft Session CPU RAM Disk		GPU On 0.04% 8.1MB/13GB .3MB/4.9GB			
	Step 1: Load a	I I	Run selection Run after	es	Workspace ☐ input (read → □ StarGala	I-only data) axyClassification_c	^ da ×			
	import numpy as r import matplotlik		Stop execution		Versions		~			
	import scipy.io a import keras from IPython.disp	C	Restart session		Settings		~			
	import keras.util from keras.layers from keras import import time		Power off	out, Flatten, Dense, Input, BatchNormalization,Conv3D, MaxPooling3D, Dense						
In[]:	Step 2: define	e an	auxiliary fun	ction to plot the accuracy and loss value during training						
	<pre>class PlotLossesi def on_train. self.i = self.x = self.val. self.loss self.val.</pre>	.begin 0 [] ses = .losse: ses2 =	(self, logs={}): [] s = [] []	ck):						
	self.fig	= plt	.figure()							
Conso	le			● Draft Session CPU 0% RAM 248.1MB/1	3 GB GPU On	Disk 266.3MB/4	4.9GB 🔨			

The code should run and you should see things like that

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k	AstroSS_v2 Draft saved File Edit Insert Run Help	+ Add Dataset	🗸 Commit	→I
	history=model_1.fit(Train_data,train_labels_cat, batch_size=100, epochs=10,validation_data=[Test_data,test_labels_cat],callbacks=[plot_losses],shuffle=True) elapsed_time = time.time() - start_time time.strftime("%H:%H:%S", time.gmtime(elapsed_time)) 10Training accuracy 250Training loss	Sessions Draft Sess CPU RAM Disk	ion 1m/9h GPU 26	On 0.19% 2.5GB/13GB 56.4MB/4.9GB
			e read-only data) GalaxyClassificatio	^ In_da X
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Out[13]:				
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In[14]:	ls,acc=model_1.evaluate(Test_data,test_labels_cat) print("Loss value: %.2f" % (ls)) print("Accuracy: %.1f" % (acc*100))			
	500/500 [] - 0s 111us/step Loss value: 6.20 Accuracy: 68.0			
	<pre>preds=model_1.predict(Test_data) print(preds[0,:]) print(test_labels[0])</pre>			
	[3.6157808e-17 0.0000000e+00 1.0000000e+00] 1.0			
Console	e	2/13GB GPU Or	n Disk 266.4MB	/4.9GB 🔨