Graded Homework 3

Re-submit Assignment

Due Wednesday by 11:59pm **Points** 10 **Submitting** a website url
Available Apr 8 at 12am - May 20 at 11:59pm about 1 month

a) Implement (i) keras based models for classifying using CNN planet amazon data set

See https://colab.research.google.com/github/fastai/course-v3/blob/master/nbs/dl1/lesson3-planet.ipynb?authuser=1#scrollTo=-XOcH94uQjPM (https://colab.research.google.com/github/fastai/course-v3/blob/master/nbs/dl1/lesson3-planet.ipynb?authuser=1#scrollTo=-XOcH94uQjPM) (this implements pytorch) - I want keras model !! not pytorch - students will get zero points if they submit pytorch one) for more information.

Try out various hyper parameters. provide detailed comments in colab with various experiments.

Please implement from scratch and not copy

50% points will be to provide tensorboard integration and trying out various layers/activation functions/other hyperparams like optimizers - Please submit the tensorboard result to tensorboard.dev

Resources for tensorboard integration :

Watch :
https://www.youtube.com/watch?v=xM8sO33x_OU (https://www.youtube.com/watch?v=xM8sO33x_OU)

(https://www.youtube.com/watch?v=xM8sO33x_OU)

colab :
https://colab.sandbox.google.com/github/tensorflow/examples/blob/master/community/en/tensorboard/tf_dev_summit_2019.ipynb

(https://colab.sandbox.google.com/github/tensorflow/examples/blob/master/community/en/tensorboard/tf_dev_summit_2019.ipynb)

https://www.tensorflow.org/tensorboard (https://www.tensorflow.org/tensorboard)

https://tensorboard.dev/ (https://tensorboard.dev/)

Deliverable : colab (with execution), tensorboard.dev link etc.,. put them all in a readme in directory in github and give me the link to the directory.