plot_for_p3

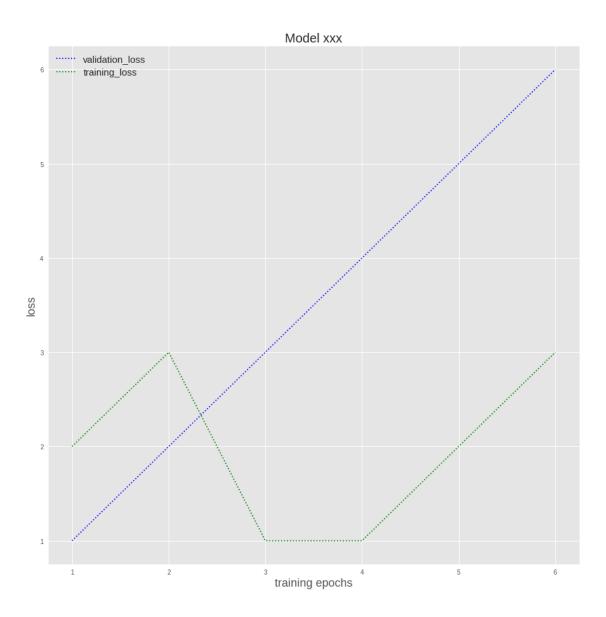
February 16, 2019

In [3]: # connect google drive

from google.colab import drive

```
drive.mount('/content/gdrive')
        # the folder I use
        !ls /content/gdrive/My\ Drive/IFT6135/datasets
        path="/content/gdrive/My Drive/IFT6135/datasets/"
        output_path="/content/gdrive/My Drive/IFT6135/plot/"
Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_id=947318989803-
Enter your authorization code:
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Mounted at /content/gdrive
CNN_Error.png
                        Finite_diff.png loss_plot.png mnist.pkl.npy
CNN_MLP_Error.png loss.npy
                                       mnist.pkl.gz torch
In [0]: import numpy as np
        import matplotlib.pyplot as plt
  Loss and Error plots
In [0]: plt.style.use('ggplot')
In [0]: def loss_acc_plot(content=["valid_err","train_err","valid_loss","train_loss"], valid_er
          """content: a list of string denotes including 'valid_err', 'train_err', 'valid_loss',
          plt.figure(figsize=fig_size)
          err=0
          loss=0
          if "valid_err" in content and valid_err!=None:
            epochs=np.arange(np.array(valid_err).reshape(-1).shape[0])+1
           plt.plot(epochs,valid_err,"b-",label="validation_error")
          if "train_err" in content and train_err!=None:
            epochs=np.arange(np.array(train_err).reshape(-1).shape[0])+1
```

```
plt.plot(epochs,train_err,"g-",label="training_error")
  err=1
if "valid_loss" in content and valid_loss!=None:
  epochs=np.arange(np.array(valid_loss).reshape(-1).shape[0])+1
  plt.plot(epochs, valid_loss, "b:", label="validation_loss")
  loss=1
if "train_loss" in content and train_loss!=None:
  epochs=np.arange(np.array(train_loss).reshape(-1).shape[0])+1
  plt.plot(epochs,train_loss,"g:",label="training_loss")
  loss=1
plt.xticks(epochs)
plt.xlabel("training epochs",fontsize=18)
if err==1 and loss==1:
  plt.ylabel("error/loss",fontsize=18)
elif err==0 and loss==1:
  plt.ylabel("loss",fontsize=18)
elif err==1 and loss==0:
  plt.ylabel("error",fontsize=18)
plt.title(title,fontsize=20)
plt.legend(fontsize=15)
plt.savefig(savefile)
plt.show()
```



2 Show images

```
mpl.rcParams['axes.grid'] = False
                         mpl.rcParams['image.interpolation'] = 'nearest'
                         mpl.rcParams['figure.figsize'] = 10, 10
                         def show_image(img):
                               plt.imshow(img)
                               plt.axis('off')
In [0]: def plot_image(image_path="/content/gdrive/My Drive/IFT6135/demoeimage/pytorch-example.
                               transforms_plot = torchvision.transforms.Compose([
                                      torchvision.transforms.Resize((64,64))
                               ])
                                image=io.imread(image_path, transform=transforms_plot)
                               show_image(image)
In [62]: '''# ! mkdir /content/gdrive/My\ Drive/IFT6135/demoeimage/
                             # ! cd /content/gdrive/My\ Drive/IFT6135/demoeimage/ & git clone https://github.com/
                             image\_path = "/content/gdrive/My \ Drive/IFT6135/demoeimage/pytorch-examples/data/classiful and the property of the property
Out[62]: '# ! mkdir /content/gdrive/My\\ Drive/IFT6135/demoeimage/\n# ! cd /content/gdrive/My\\
In [63]: plot_image()
```



In [0]: