The Average Value of Loss

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```
import numpy as np

trainLoss = []

Input = []

Output = []

lines = [line.rstrip('\n').split() for line in open('../Training_data.txt')]

for line in lines :
    if line[0] == 'TRAINING' or "VALIDATION" :
        trainLoss.append(float(line[6]))
       # trainEpoch.append(float(line[4]))

#epoch = input("Up to which epoch would you like to consider for the average?")
#print(epoch)

#for line in lines :
   # if line[4] ==
Input = np.array(trainLoss)
-UU-:----F1  Average_Loss_Func.py   Top L15    (Python)--------------------------
```

```
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    if line[0] == 'TRAINING' or "VALIDATION" :
        trainLoss.append(float(line[6]))
       # trainEpoch.append(float(line[4]))

#epoch = input("Up to which epoch would you like to consider for the average?")
#print(epoch)

#for line in lines :
   # if line[4] ==
Input = np.array(trainLoss)
Output = np.mean(Input)

print(Output)

-UU-:----F1  Average_Loss_Func.py    Bot L22    (Python)-------------------------
```

```
base) aputra@ivy:~/CRinGe/CrisPlayground$ python Average_Loss_Func.py
2.63871074 2.30683494 0.74102497 0.7634111  0.74567991 0.72172111
0.72041237 0.71102417 0.70942271 0.67410427 0.71371067 0.71645886
0.73575634 0.68351287 0.66642147 0.68531382 0.67334139 0.69896305
0.67105407 0.67111427 0.64737689 0.63311434 0.64332092 0.6649788
0.65545118 0.64040929 0.55745518 0.58926755 0.63787496 0.59291291
0.57264346 0.62939519 0.57954043 0.59175241 0.58091307 0.60411841
0.5661816  0.59127021 0.57414436 0.59972876 0.58047026 0.5986442
0.62215698 0.59101343 0.59408224 0.62924403 0.55232203 0.62949109
0.55381119 0.59354776 0.60790002 0.59890342 0.59518492 0.54359847
0.60081923 0.57059938 0.56022549 0.53690255 0.50648355 0.5165962
0.48102918 0.47423077 0.44425976 0.45296511 0.42252126 0.44121274
0.46269608 0.44629574 0.43881494 0.46790075 0.4488174  0.4632172
0.43577641 0.44623134 0.46576944 0.45308512 0.45263833 0.44731489
0.46248576 0.45544404 0.45287004 0.4567872  0.44037804 0.46065587
0.46076405 0.46694499 0.44824526 0.46373072 0.43366745 0.42586836
```

```
(base) aputra@ivy:~/CRinGe/CrisPlayground$ python Average_Loss_Func.py
0.4455164025655951
(base) aputra@ivy:~/CRinGe/CrisPlayground$
```

Next Steps

Ensure that all Loss Data is considered from training_data.txt

Further develop the program so that a user may request the average loss of epoch ‘a’ to ‘b’

Begin an assignment concerning the layers of the neural network