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Assignment 5

CSC 486B
March 10, 2020

Reproducing default architecture results – Testing

Running the provided model with the following command:

```
python solution.py --save_dir provided_weights --conv custom
        --mode test
```

gave us the following results:
Loss = 1.124
Accuracy = 61.26%.

Reproducing default architecture results – Training

Running the model using the custom convolutional layer with the following command:

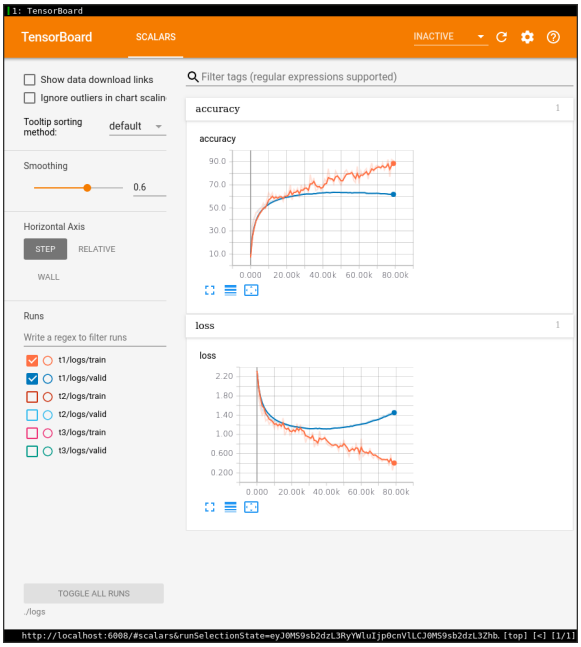
```
python solution.py --log_dir logs/train/logs
        --save_dir logs/train/save --conv custom
        --num_epoch 25 --mode test
```

gave us the following results:
Loss = 2.016
Accuracy = 46.93%

CNN architectures

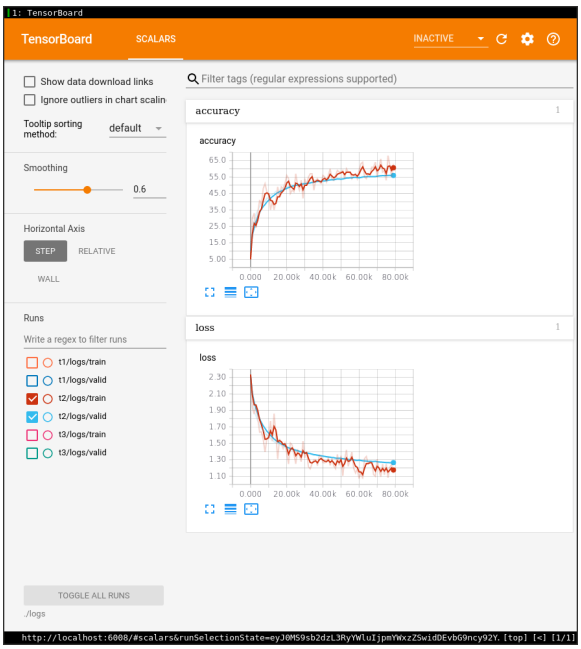
Architecture 1

num_conv_outer = 2, num_epoch = 200.
Results: Loss: 1.146. Accuracy: 63.39%.



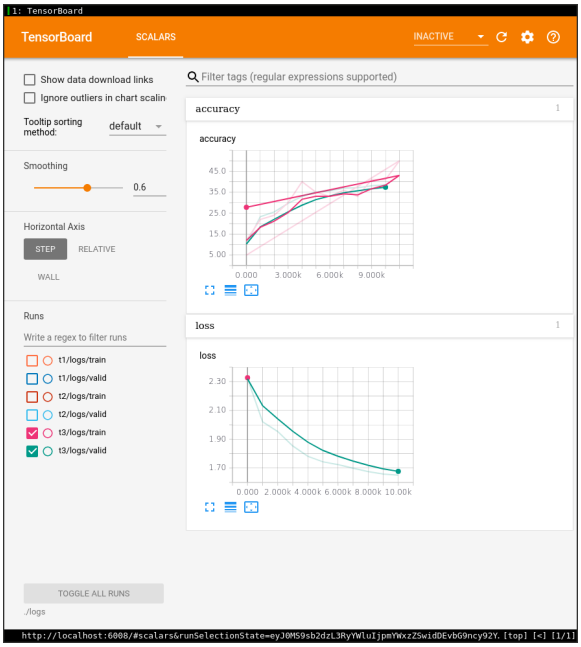
Architecture 2

nchannel_base = 4, num_epoch = 200.
Results: Loss: 1.265. Accuracy: 55.51%.



Architecture 3

num_conv_inner = 3, num_conv_outer = 2, num_epoch = 25.
Results: Loss: 1.641. Accuracy: 39.30%.


1: TensorBoard
TensorBoard
SCALARS
INACTIVE
Show data download links
Ignore outliers in chart scalin
Tooltip sorting method:
default
Smoothing
0.6
Horizontal Axis
STEP
RELATIVE
WALL
Runs
Write a regex to filter runs
t1/logs/train
t1/logs/valid
t2/logs/train
t2/logs/valid
t3/logs/train
t3/logs/valid
TOGGLE ALL RUNS
./logs
Filter tags (regular expressions supported)
accuracy
accuracy
45.0
35.0
25.0
15.0
5.00
0.000
3.000k
6.000k
9.000k
loss
loss
2.30
2.10
1.90
1.70
0.000
2.000k
4.000k
6.000k
8.000k
10.00k
http://localhost:6008/#scalars&runSelectionState=eyJ0MS9sb2dzL3RyYWluIjpmYWxzZSwidDEvbG9ncy92Y. [top] [<] [1/1]