Kyle Dituro

James McClung

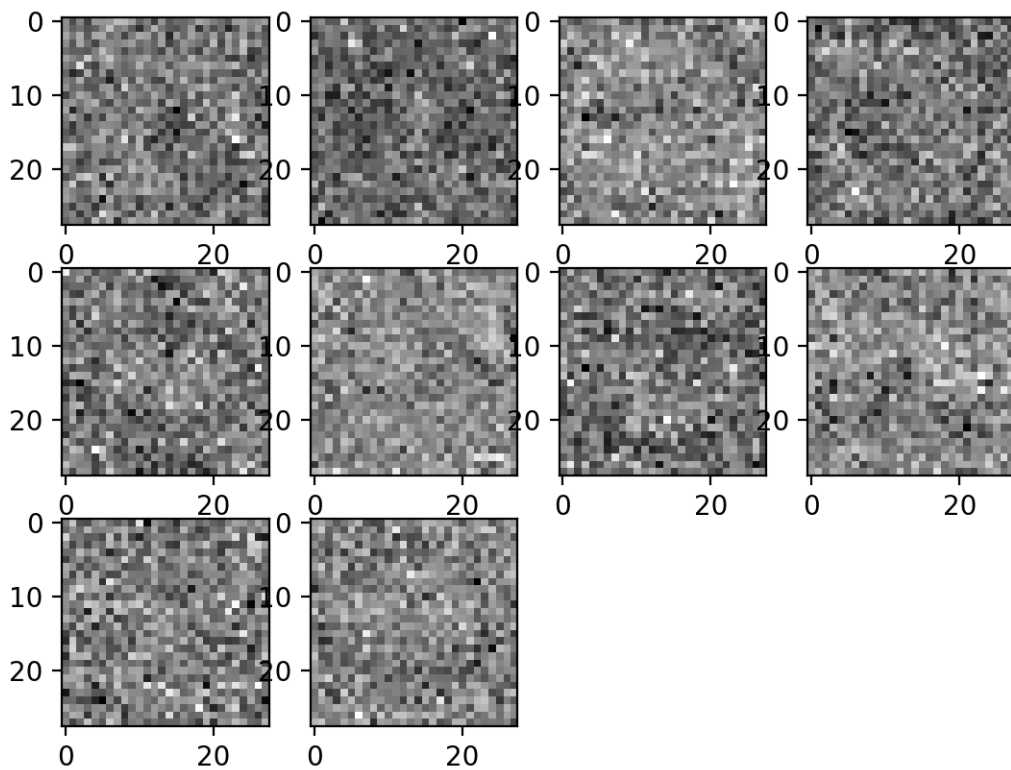April 15, 2020

Assignment 3

1 Training Results

```
20: fPC = 0.8404
19: fPC = 0.8404
18: fPC = 0.8404
17: fPC = 0.8404
16: fPC = 0.8404
15: fPC = 0.8406
14: fPC = 0.8406
13: fPC = 0.8406
12: fPC = 0.8406
11: fPC = 0.8406
10: fPC = 0.8406
9: fPC = 0.8406
8: fPC = 0.8404
7: fPC = 0.8404
6: fPC = 0.8404
5: fPC = 0.8404
4: fPC = 0.8404
3: fPC = 0.8404
2: fPC = 0.8404
1: fPC = 0.8404
```

fPC of last 20 epochs

```
Test accuracy (PC): 0.8348
Test loss (CE): 0.7890565192185769
```
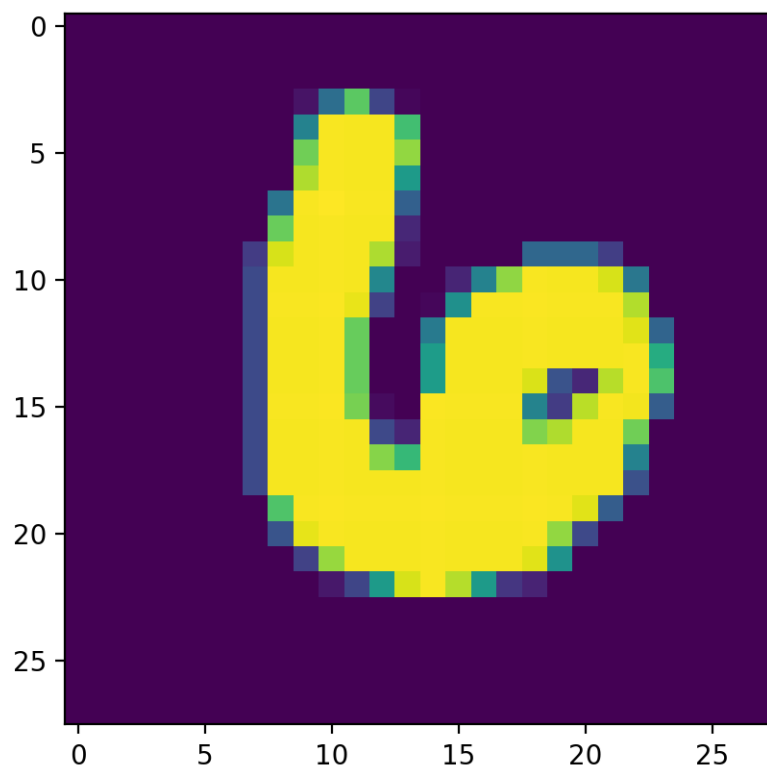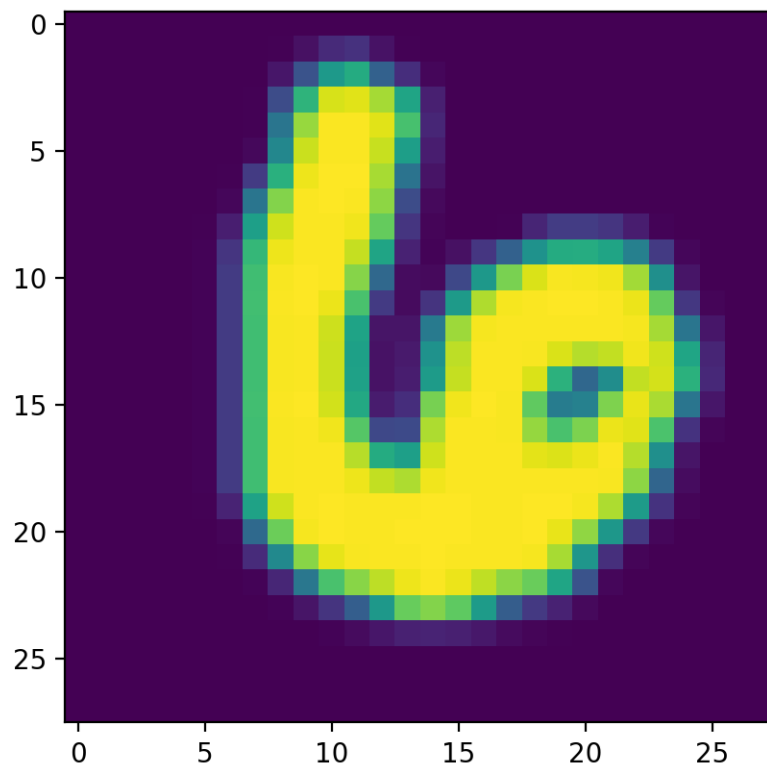
Training results

2   Weight Visualization:

The charts above correspond to weights according to the below table

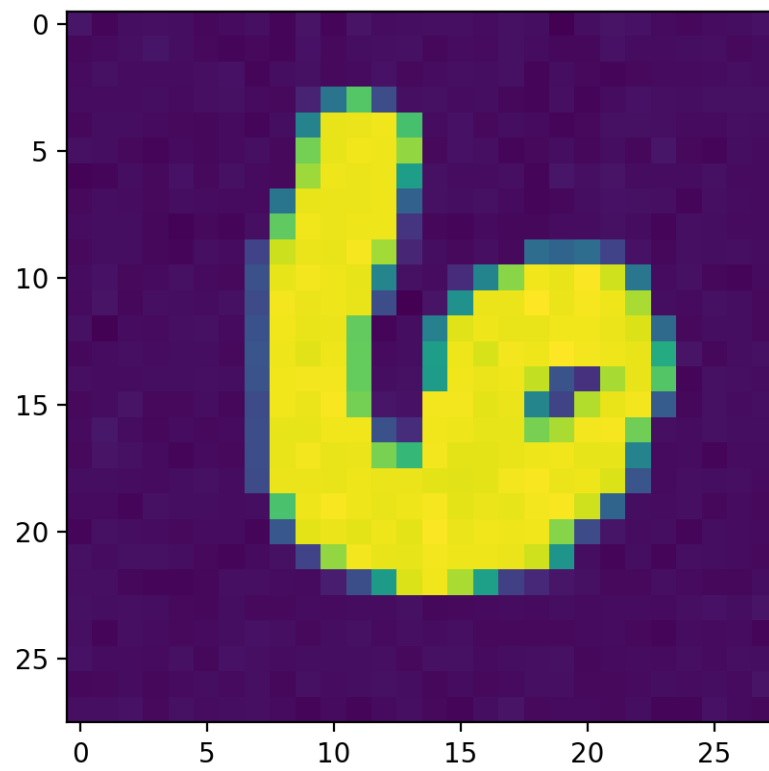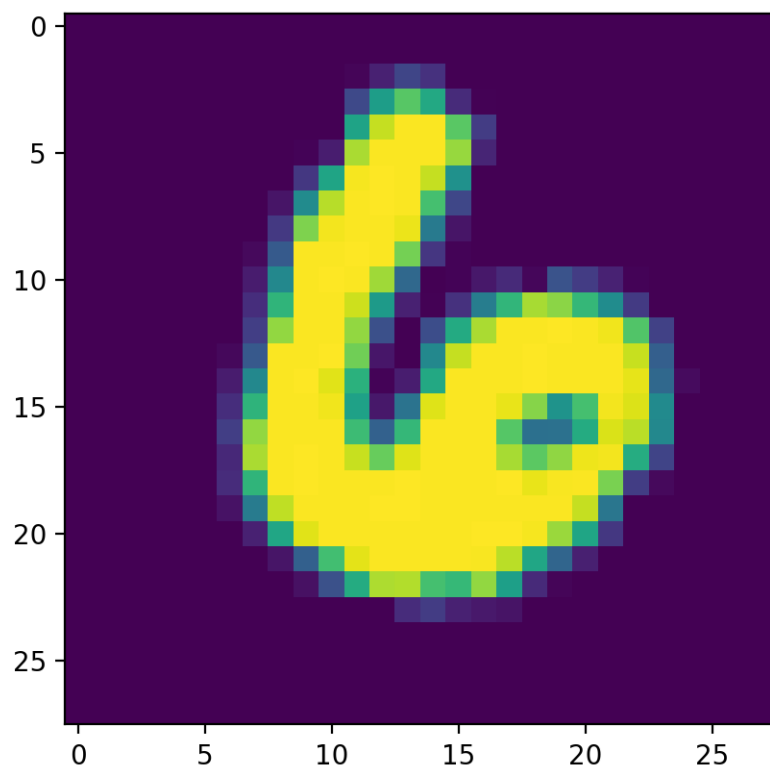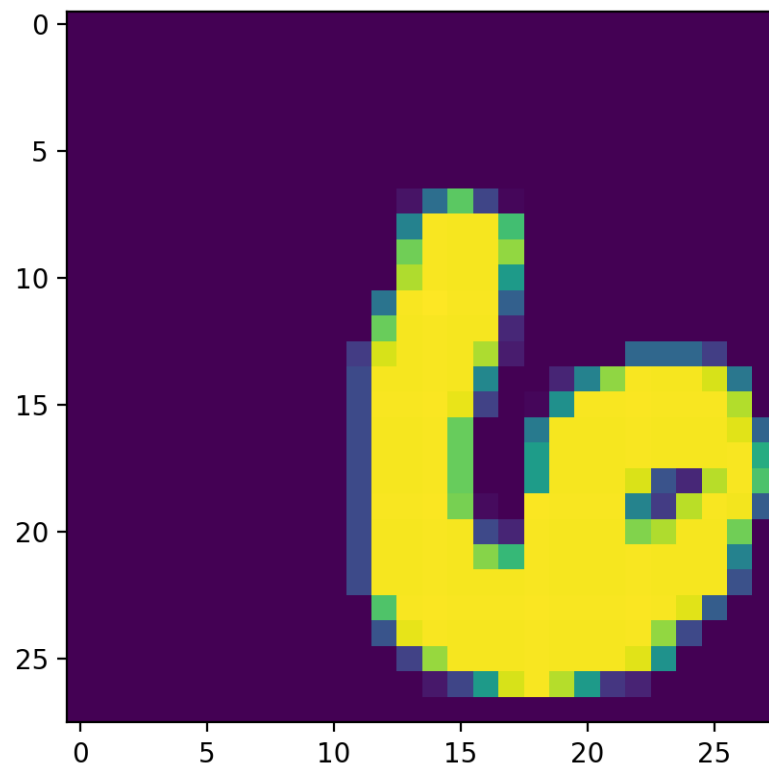| 0	1	2	3
4	5	6	7
8	9		

3 Transformations:

Regular Image

Scaled Image

Noise Applied

Rotated Image

Translated Image