

HW 3

Professor: Jacob Whitehill

Erik Reimert: ereimertburro

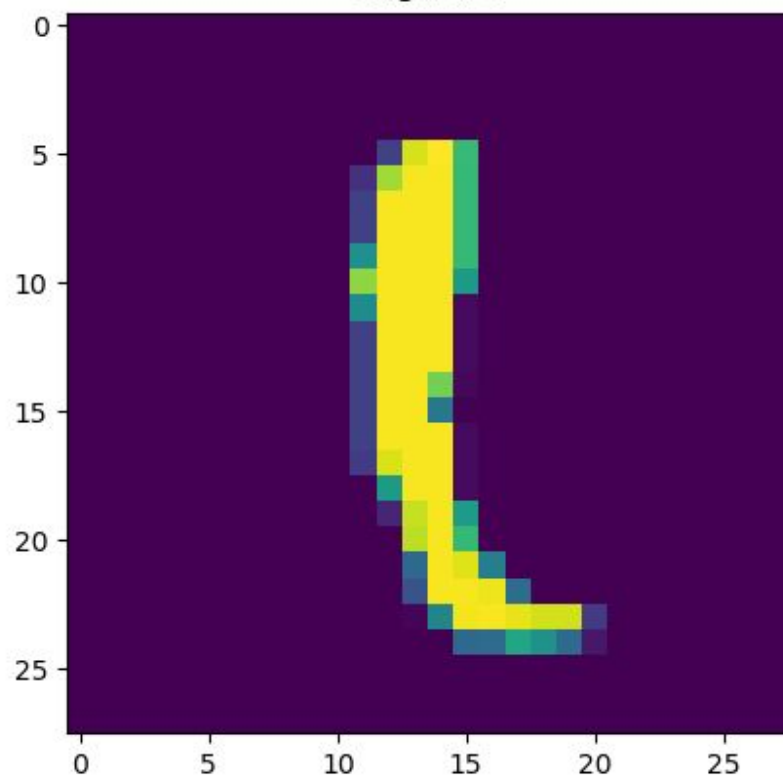
Vital T. Mendonca Filho: vtmendoncafilh@wpi.edu

Scores

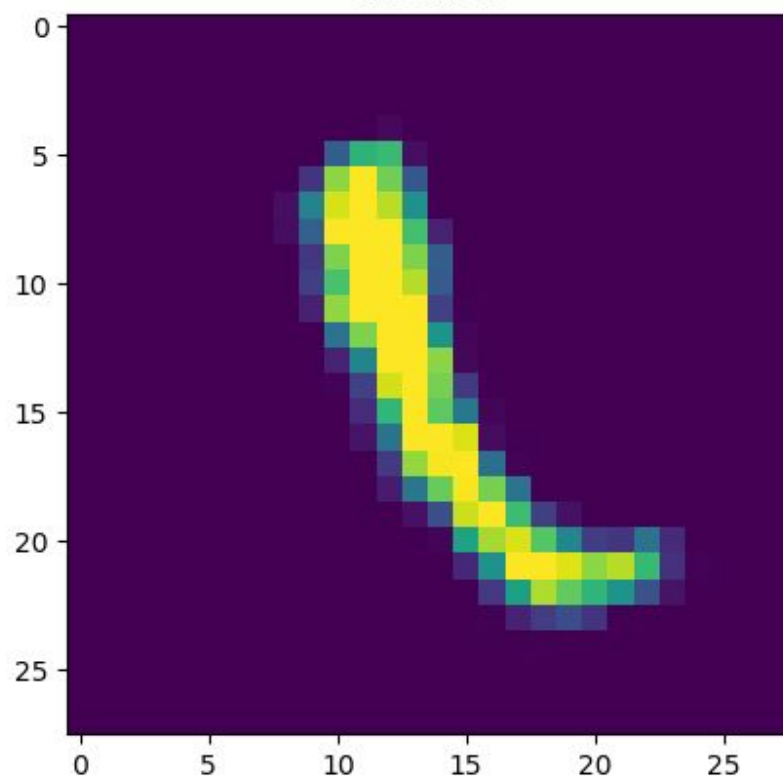
Test loss	9.303315330289536e-05
Test Accuracy	0.8702

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Anaconda Powershell Prompt (Anaconda3)
(base) PS C:\Users\Erik Reimert\github\Machine-Learning\Project 3 Softmax Regression> python .\homework3_ereimertburro_v
tdemendoncafilh.py
Epoch: 281 Loss: 0.0013218584299655725
Epoch: 282 Loss: 0.0008313157064985137
Epoch: 283 Loss: 0.0012229121609694815
Epoch: 284 Loss: 0.0013247298381408017
Epoch: 285 Loss: 0.0010830544847644564
Epoch: 286 Loss: 0.0007358414141970482
Epoch: 287 Loss: 0.0014221783182623035
Epoch: 288 Loss: 0.0021058103260271892
Epoch: 289 Loss: 0.0014014898260835053
Epoch: 290 Loss: 0.0020706997251950707
Epoch: 291 Loss: 0.0011757709863880425
Epoch: 292 Loss: 0.0012847573297179373
Epoch: 293 Loss: 0.0016807209779295684
Epoch: 294 Loss: 0.0006508652148831857
Epoch: 295 Loss: 0.0013037737680195274
Epoch: 296 Loss: 0.0006505057268383053
Epoch: 297 Loss: 0.0008413538849359561
Epoch: 298 Loss: 0.0017656582181136257
Epoch: 299 Loss: 0.0014414566103956507
Epoch: 300 Loss: 0.0011594645021949456
Testing Loss: 9.303315330289536e-05
Testing Accuracy: 0.8702
(base) PS C:\Users\Erik Reimert\github\Machine-Learning\Project 3 Softmax Regression> python .\homework3_ereimertburro_v
tdemendoncafilh.py
(base) PS C:\Users\Erik Reimert\github\Machine-Learning\Project 3 Softmax Regression> python .\homework3_ereimertburro_v
tdemendoncafilh.py
(base) PS C:\Users\Erik Reimert\github\Machine-Learning\Project 3 Softmax Regression> python .\homework3_ereimertburro_v
```

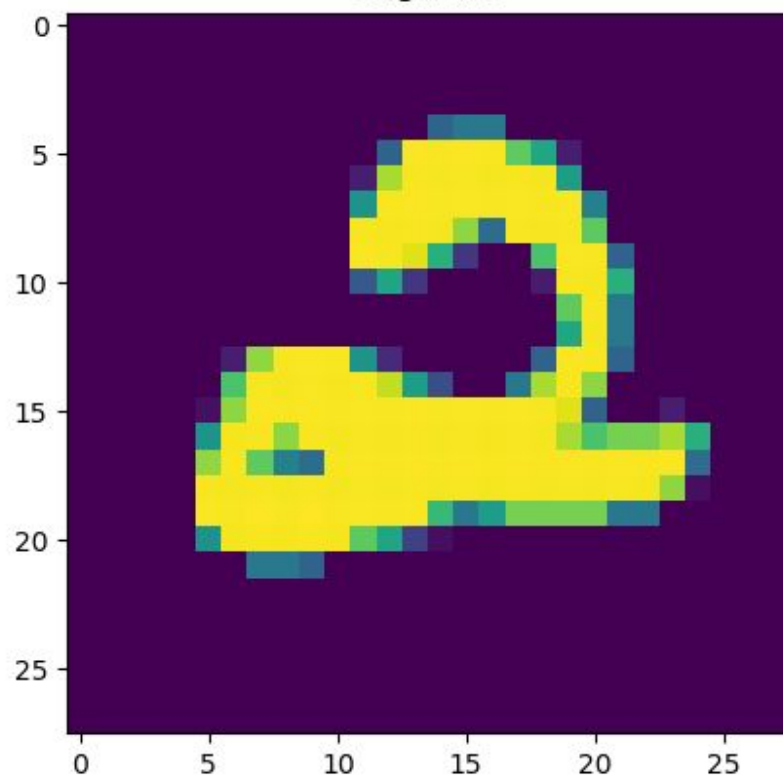
Original 1



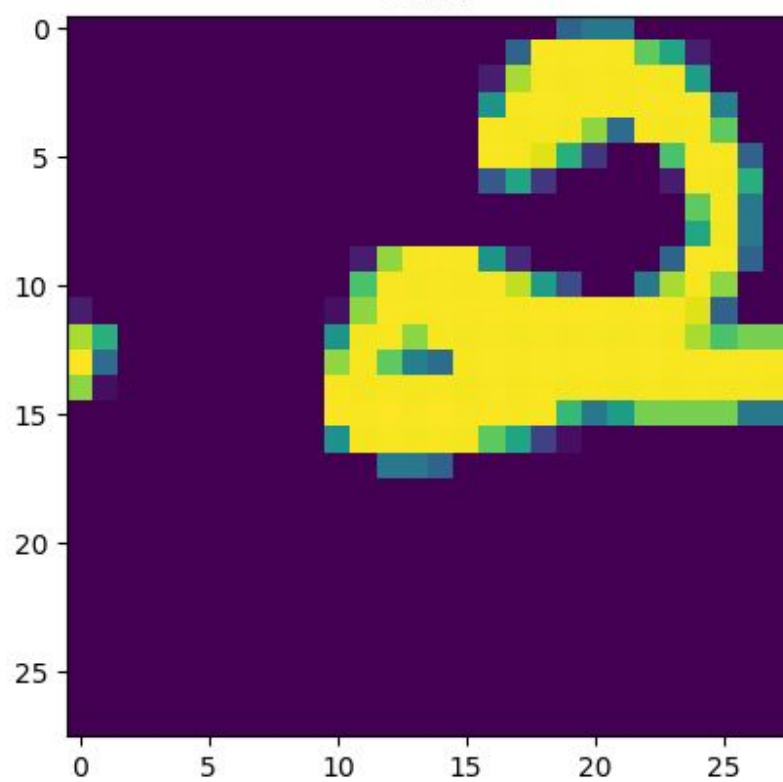
Rotation



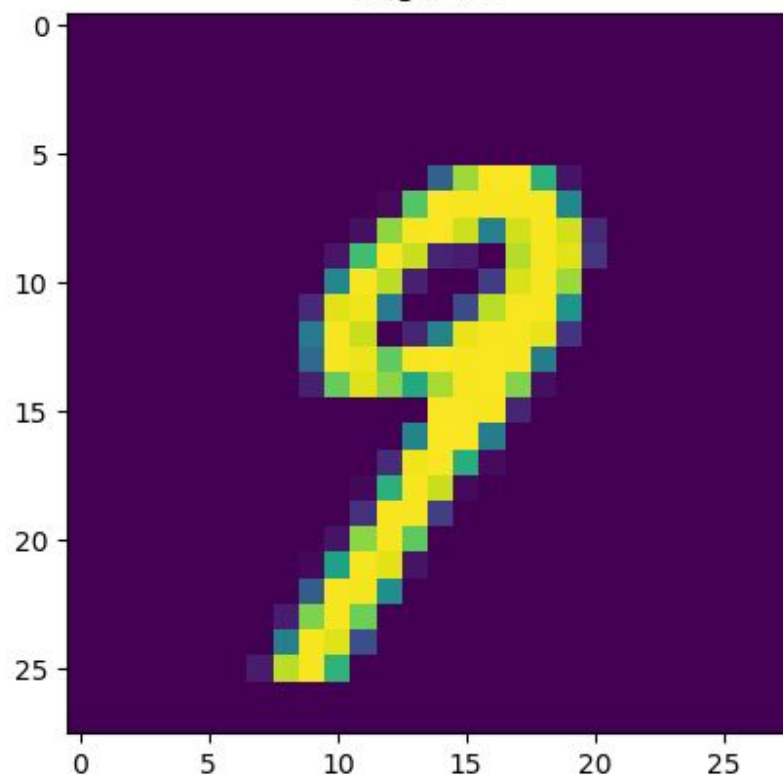
Original 2



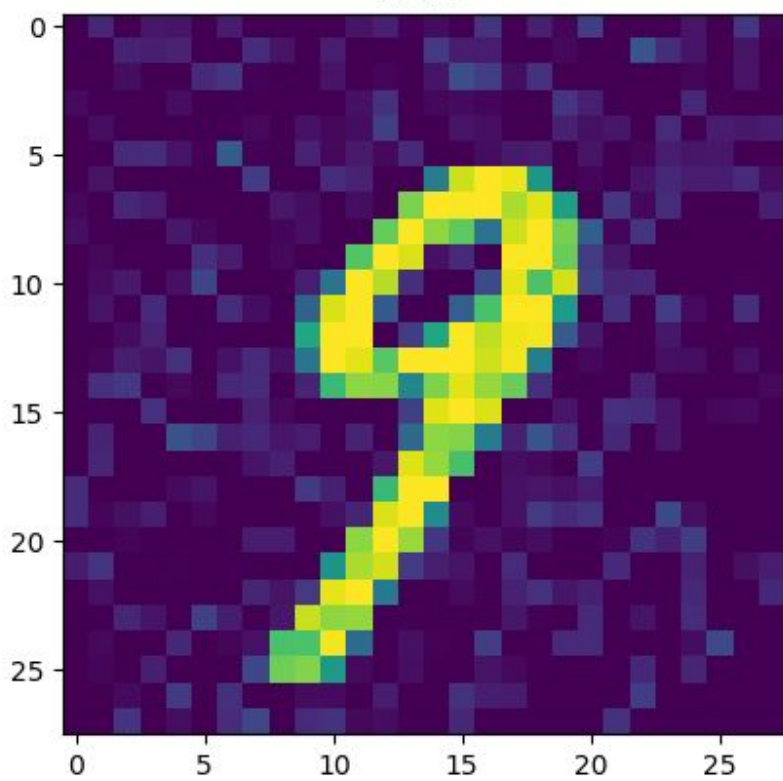
Shift



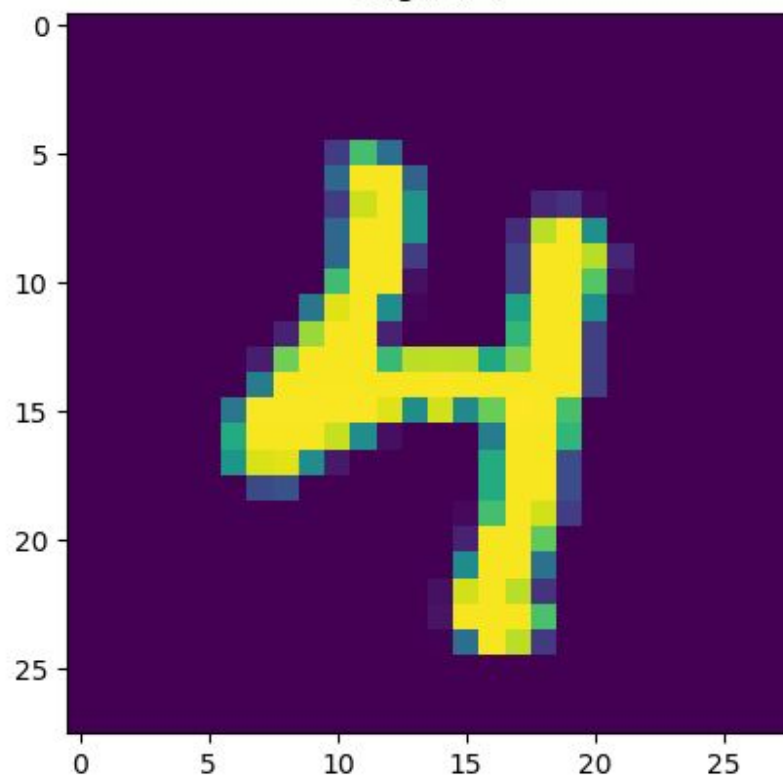
Original 3



Noise



Original 4



Scale

