

ECE 4370 Project 6

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LIBRARIES USED FOR CNN MODEL	PYTORCH 1.11 WITH PYTHON 3.9.7									
NUMBER OF LEARNABLE PARAMETERS	1 ST HIDDEN LAYER: 11x11x6x1 = 2 nd Hidden Layer: 11x11x12x6 = 3 rd Hidden Layer: 11x11x24x12 = Output layer: 24x71x71x2 =									
TRAINING INFORMATION	IMAGE PREPROCESSING: NONE Model Description: 4 hidden layers (convolution only) Kernel size: 11x11 Stride: 1 Padding: Valid Loss Function: Cross-Entropy Loss Optimizer: Adam Epochs: 25 Training size: 10000 Testing size: 1000									
TESTING INFORMATION	CONFUSION MATRIX <table><tr><td>498</td><td>2</td><td><u>PRED 0</u></td></tr><tr><td>32</td><td>468</td><td><u>PRED 1</u></td></tr><tr><td><u>ACTUAL 0</u></td><td><u>ACTUAL 1</u></td><td></td></tr></table> Classification Accuracy: 0.966	498	2	<u>PRED 0</u>	32	468	<u>PRED 1</u>	<u>ACTUAL 0</u>	<u>ACTUAL 1</u>	
498	2	<u>PRED 0</u>								
32	468	<u>PRED 1</u>								
<u>ACTUAL 0</u>	<u>ACTUAL 1</u>									
EXECUTION TIMES	TRAINING TIME: 4810 SECONDS Testing Time:34 Seconds									