

CS 797O: Neural Nets and Deep Learning

Unit 2: Assignment 3- Neuralworks

Abu Tyeb Azad
WSU ID: Q688C867

February 20, 2023

1 Table

Run	Input/Hid1 /Output	Learning Rule	Activation Function (Transfer)	Options	RMS Error Training	RMS Error Testing
1	4/4/3	Delta	Sigmoid	Default	0.0386	0.1470
2	4/2/3	Delta	Sigmoid	Default	0.0341	0.1486
3	4/1/3	Delta	Sigmoid	Default	0.3337	0.3342
4	4/4/3	Delta	Tanh	Default	0.0587	0.1650
5	4/4/3	Delta	Tanh	MinMaxOn	0.0232	0.2568
6	4/4/3	Norm-Cum-Delta	Tanh	MinMaxOn	0.1063	0.2286

2 Screenshots of Trained Networks

2.1 Run 1

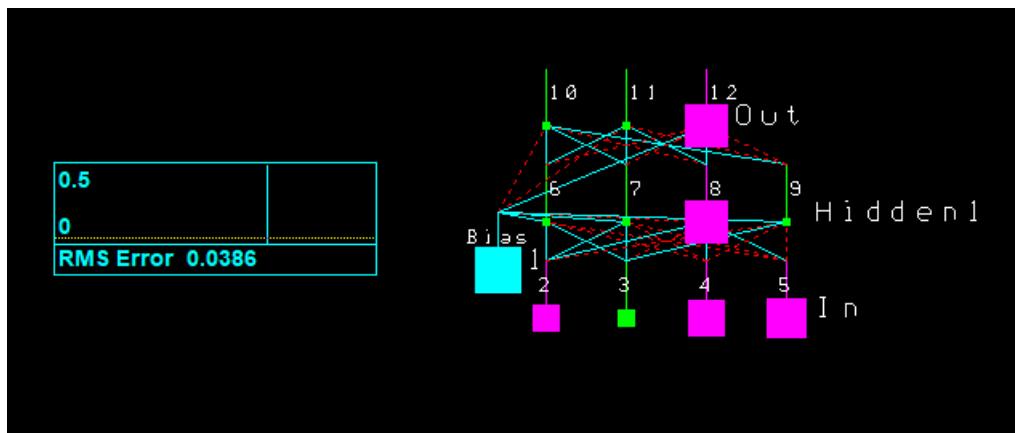


Figure 1: Run 1 Training

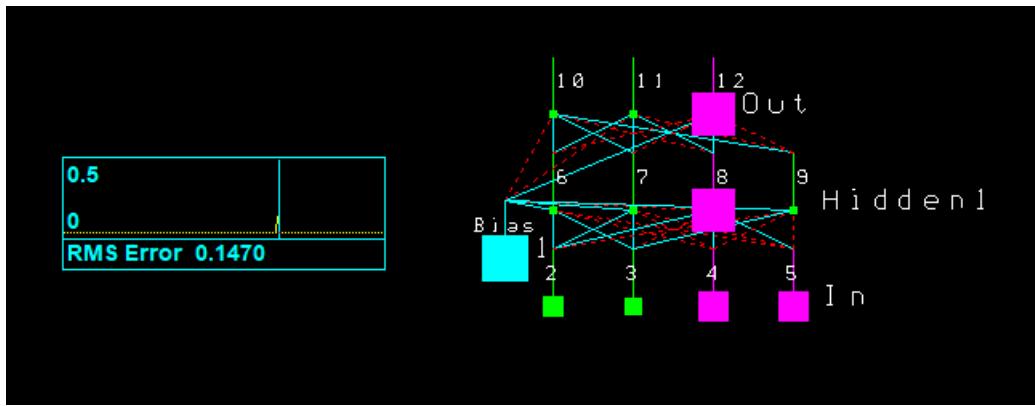


Figure 2: Run 1 Testing

2.2 Run 2

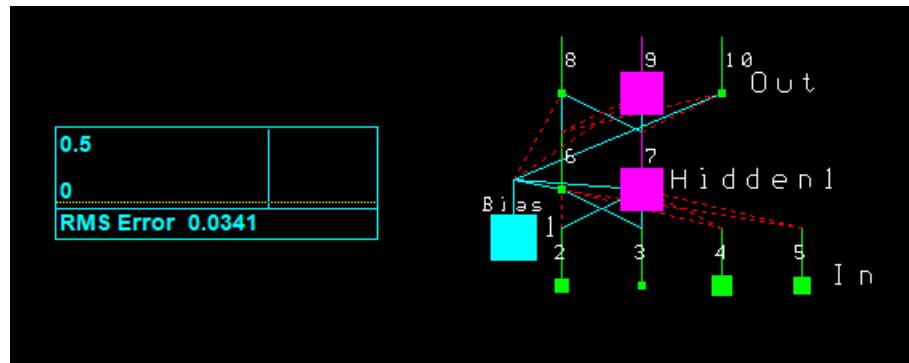


Figure 3: Run 2 Training

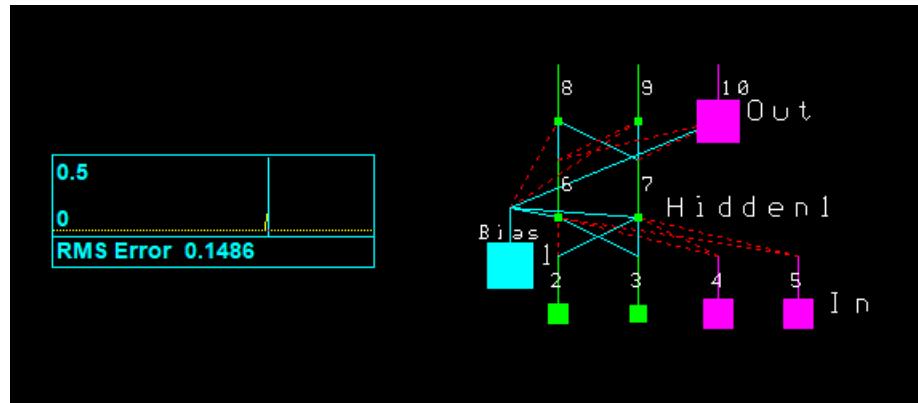


Figure 4: Run 2 Testing

2.3 Run 3

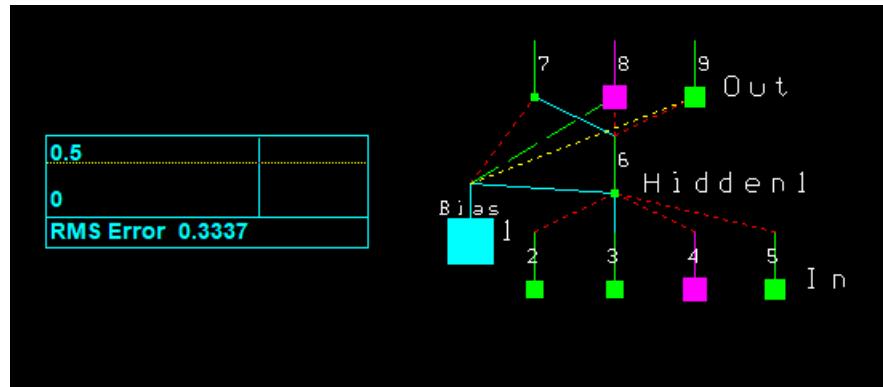


Figure 5: Run 3 Training

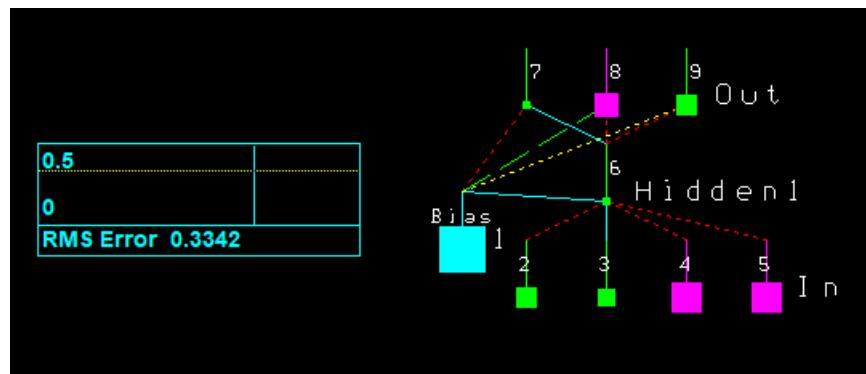


Figure 6: Run 3 Testing

2.4 Run 4

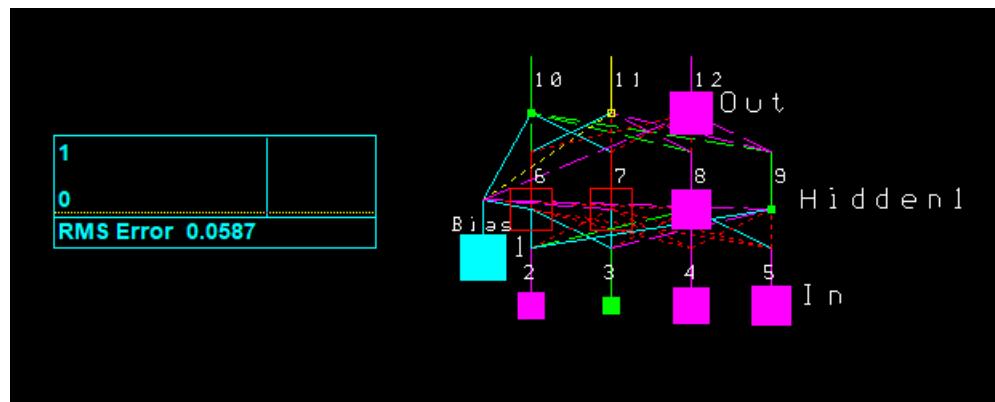


Figure 7: Run 4 Training

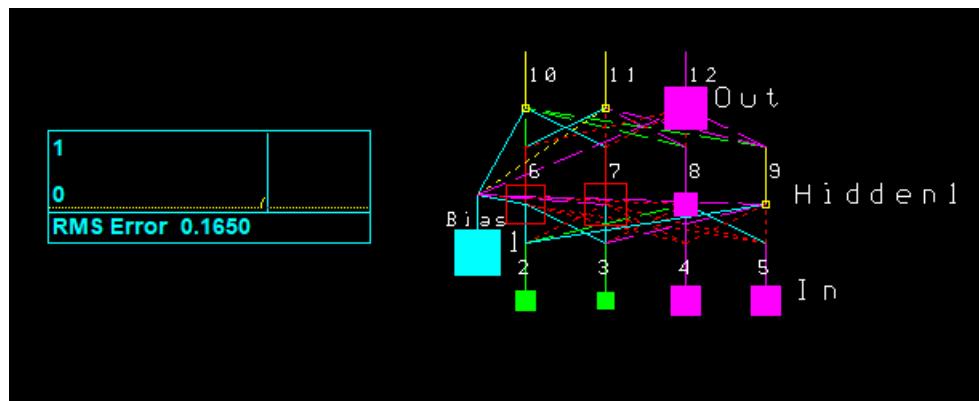


Figure 8: Run 4 Testing

2.5 Run 5

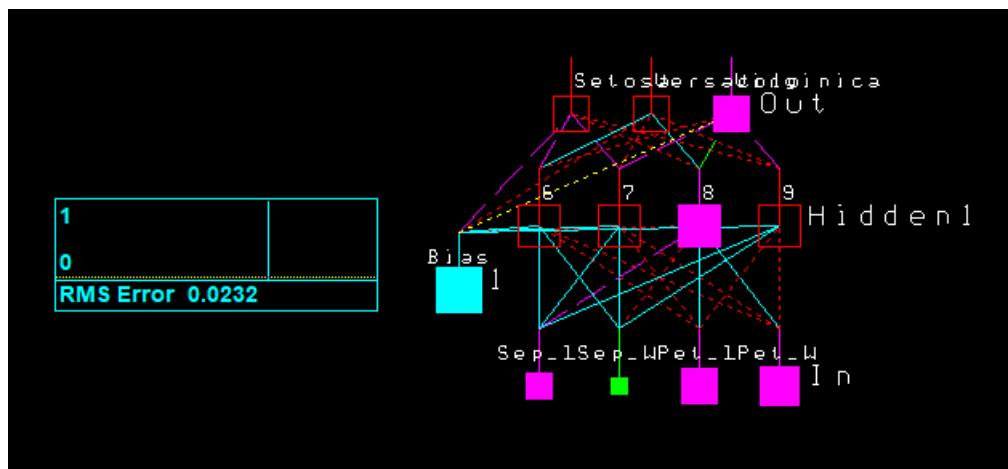


Figure 9: Run 5 Training

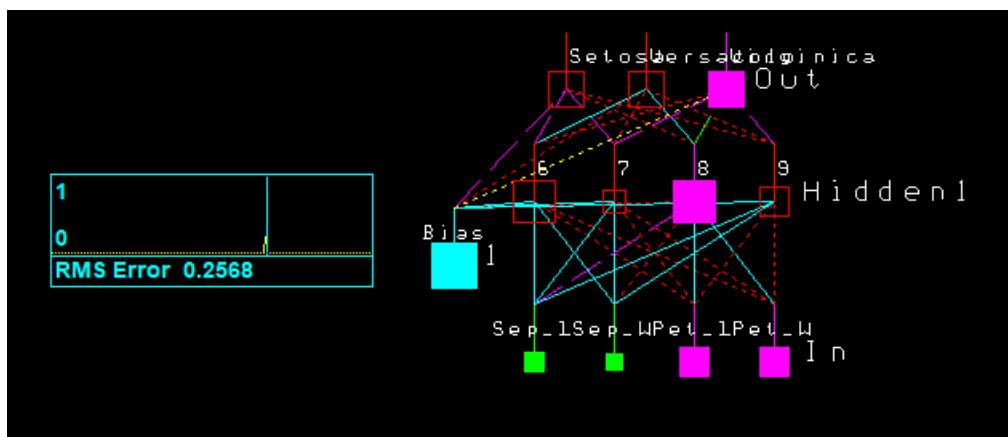


Figure 10: Run 5 Testing

2.6 Run 6

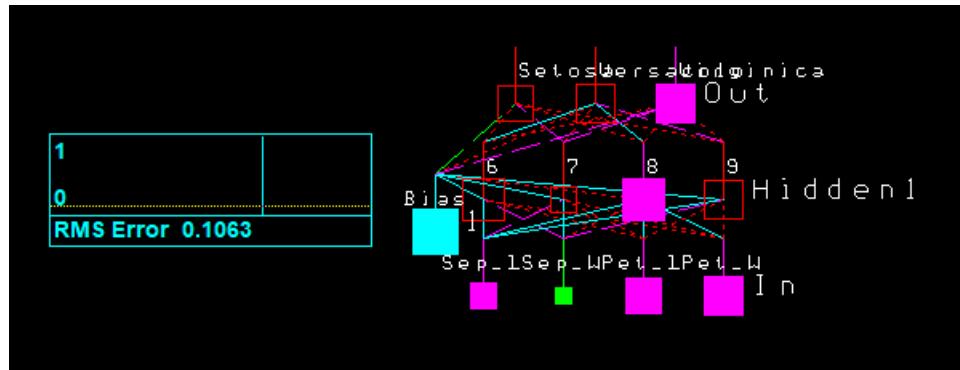


Figure 11: Run 6 Training

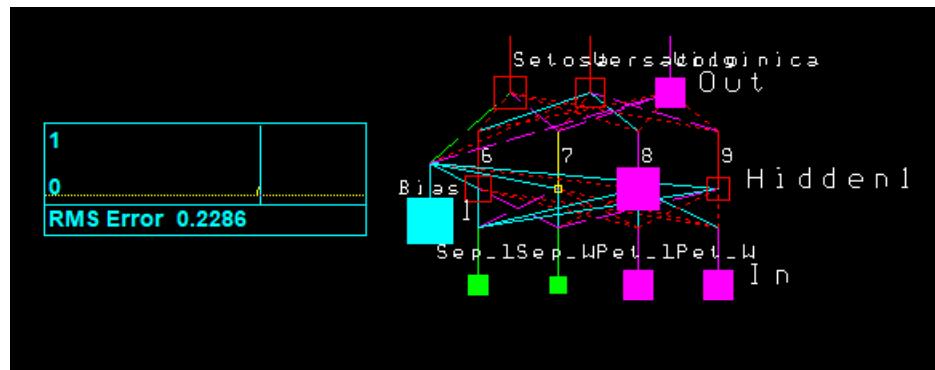


Figure 12: Run 6 Testing