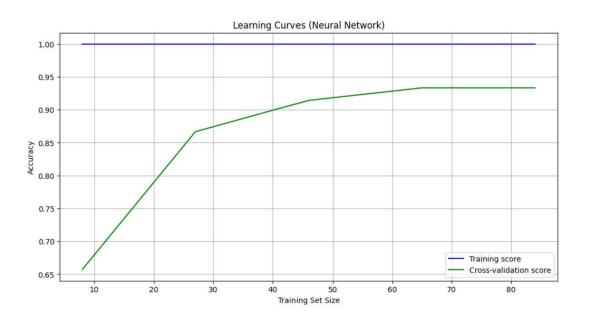
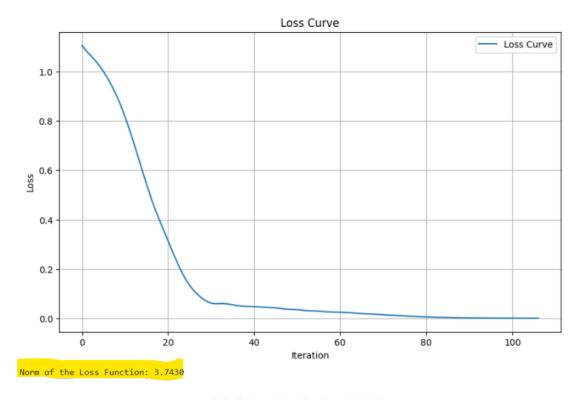
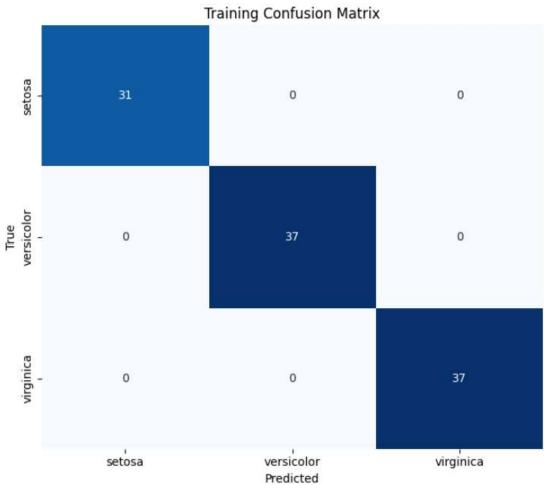
## Final Project Part 4 - Neuron Network: 4+100\*8+3

Sunday, August 18, 2024 1:01 AM

```
Training the neural network..
                                                                                                                                                                             Iteration 54, loss = 0.0303854/
Iteration 55, loss = 0.03002783
             Iteration 1, loss = 1.10515099
Iteration 2, loss = 1.08288964
Iteration 3, loss = 1.06459177
                                                                                                                                                                                            Iteration 56, loss = 0.02934357
Iteration 57, loss = 0.02801326
Iteration 58, loss = 0.02669648
Iteration 59, loss = 0.02578789
              Iteration 4, loss = 1.04575564
             Iteration 4, loss = 1.04575564
Iteration 5, loss = 1.02418949
Iteration 6, loss = 0.99921033
Iteration 7, loss = 0.97661795
Iteration 8, loss = 0.93836906
Iteration 9, loss = 0.90279534
Iteration 10, loss = 0.86228706
                                                                                                                                                                                            Iteration 60, loss = 0.02512467
Iteration 61, loss = 0.02479759
                                                                                                                                                                                            Iteration 62, loss = 0.02426399
Iteration 63, loss = 0.02349663
Iteration 64, loss = 0.02204703
Iteration 65, loss = 0.02049856
             Iteration 11, loss = 0.81577092
Iteration 12, loss = 0.76512504
                                                                                                                                                                                            Iteration 66, loss = 0.01935882
Iteration 67, loss = 0.01859563
Iteration 68, loss = 0.01788178
Iteration 69, loss = 0.01702645
              Iteration 13, loss = 0.71112384
Iteration 14, loss = 0.65468167
             Iteration 15, loss = 0.59735994
Iteration 16, loss = 0.54175131
                                                                                                                                                                                           Iteration 69, loss = 0.01702645
Iteration 70, loss = 0.01588520
Iteration 71, loss = 0.01458575
Iteration 72, loss = 0.01350825
Iteration 73, loss = 0.01271477
Iteration 74, loss = 0.01190962
             Iteration 17, loss = 0.49007853
Iteration 18, loss = 0.44197367
Iteration 19, loss = 0.39838536
Iteration 20, loss = 0.35650515
             Iteration 21, loss = 0.31432814
Iteration 22, loss = 0.27201633
                                                                                                                                                                                            Iteration 75, loss = 0.01099562
Iteration 76, loss = 0.00991902
Iteration 77, loss = 0.00898889
Iteration 78, loss = 0.00827770
             Iteration 23, loss = 0.23154379
Iteration 24, loss = 0.19391160
Iteration 25, loss = 0.16091463
Iteration 26, loss = 0.13383057
                                                                                                                                                                                            Iteration 79, loss = 0.00747012
Iteration 80, loss = 0.00663702
             Iteration 27, loss = 0.11210843
Iteration 28, loss = 0.09465132
Iteration 29, loss = 0.07992111
Iteration 30, loss = 0.06878273
                                                                                                                                                                                            Iteration 81, loss = 0.00606623
                                                                                                                                                                                            Iteration 82, loss = 0.00549427
Iteration 83, loss = 0.00488579
Iteration 84, loss = 0.00442999
             Iteration 31, loss = 0.06168768
Iteration 32, loss = 0.05946300
                                                                                                                                                                                            Iteration 85, loss = 0.00391387
Iteration 86, loss = 0.00349088
             Iteration 33, loss = 0.05975770
Iteration 34, loss = 0.05986791
Iteration 35, loss = 0.05822566
Iteration 36, loss = 0.05511846
                                                                                                                                                                                            Iteration 87, loss = 0.00310737
Iteration 88, loss = 0.00278205
Iteration 89, loss = 0.00248119
Iteration 90, loss = 0.00223947
            Iteration 36, loss = 0.05511846 
Iteration 37, loss = 0.04980040 
Iteration 38, loss = 0.04980040 
Iteration 39, loss = 0.04810134 
Iteration 40, loss = 0.04810914 
Iteration 41, loss = 0.04749089 
Iteration 42, loss = 0.04663322 
Iteration 43, loss = 0.04559489 
Iteration 44, loss = 0.04463970 
Iteration 45, loss = 0.04365780 
Iteration 46, loss = 0.04285417
                                                                                                                                                                                           Iteration 90, loss = 0.0022394/
Iteration 91, loss = 0.00199883
Iteration 92, loss = 0.00181600
Iteration 93, loss = 0.00163237
Iteration 94, loss = 0.00148158
Iteration 95, loss = 0.00132573
Iteration 96, loss = 0.00122594
                                                                                                                                                                                           Iteration 96, 1055 = 0.001122394
Iteration 97, loss = 0.00112923
Iteration 98, loss = 0.00104743
Iteration 99, loss = 0.00097407
Iteration 100, loss = 0.000951719
Iteration 101, loss = 0.00085705
Iteration 102, loss = 0.000880805
              Iteration 46, loss = 0.04285417
Iteration 47, loss = 0.04052537
             Iteration 48, loss = 0.03823625
Iteration 49, loss = 0.03685784
                                                                                                                                                                                           Iteration 50, loss = 0.03625989
Iteration 51, loss = 0.03548133
             Iteration 52, loss = 0.03354539
Iteration 53, loss = 0.03149341
Iteration 54. loss = 0.03038547
```







Neural Network Architecture with 8 Hidden Layers

