# MLP\_org\_1 (org\_1 with Stochastic Gradient Descent)

(Iters 8000)

Examples labeled as 0 classified by model as 0: 12 times

Examples labeled as 0 classified by model as 1: 1 times

Examples labeled as 1 classified by model as 1: 11 times

Examples labeled as 2 classified by model as 1: 1 times

Examples labeled as 2 classified by model as 2: 16 times

Examples labeled as 2 classified by model as 3: 1 times

Examples labeled as 3 classified by model as 2: 1 times

Examples labeled as 3 classified by model as 3: 15 times

==========================Scores========================================

Accuracy: 0.931

Precision: 0.9312

Recall: 0.9374

F1 Score: 0.9343

========================================================================

Original network params: [-0.48, -0.71, -1.59, -0.58, -2.06, -1.92, -1.34, 1.90, 1.04, -1.21, 0.23, 2.47, -1.08, 0.18, 1.77, -1.06, -0.11, 1.01, 0.07, 0.45, -0.42, -1.04, -0.10, 2.41, 1.08, -0.33, -1.59, 2.17, -1.10, -0.23, -1.50, 0.91, -1.39, -0.78, -1.88, 1.44, 1.93, -0.83, -0.48, -0.48, -1.44, 0.95, 3.38, -2.90]

Saved network params: [-0.48, -0.71, -1.59, -0.58, -2.06, -1.92, -1.34, 1.90, 1.04, -1.21, 0.23, 2.47, -1.08, 0.18, 1.77, -1.06, -0.11, 1.01, 0.07, 0.45, -0.42, -1.04, -0.10, 2.41, 1.08, -0.33, -1.59, 2.17, -1.10, -0.23, -1.50, 0.91, -1.39, -0.78, -1.88, 1.44, 1.93, -0.83, -0.48, -0.48, -1.44, 0.95, 3.38, -2.90]

Evaluate model....

# MLP\_org\_1 (org\_1 with Stochastic Gradient Descent) Iters:7500

Examples labeled as 0 classified by model as 0: 12 times

Examples labeled as 0 classified by model as 1: 1 times

Examples labeled as 1 classified by model as 1: 12 times

Examples labeled as 2 classified by model as 1: 1 times

Examples labeled as 2 classified by model as 2: 15 times

Examples labeled as 2 classified by model as 3: 5 times

Examples labeled as 3 classified by model as 3: 12 times

==========================Scores========================================

Accuracy: 0.8793

Precision: 0.8908

Recall: 0.9093

F1 Score: 0.9

========================================================================

Original network params: [-1.03, -1.06, -1.33, -1.02, -2.18, -1.17, -1.19, 1.82, 1.13, -1.19, 0.31, 2.49, -1.01, 0.19, 1.70, -1.41, 0.22, 1.07, 0.03, 0.39, -0.43, -1.00, -0.09, 2.43, 1.01, -0.34, -1.41, 2.10, -1.08, -0.22, -1.74, 0.73, -1.39, -0.81, -1.79, 1.70, 1.89, -0.78, -0.49, -0.51, -1.43, 0.84, 3.66, -3.08]

Saved network params: [-1.03, -1.06, -1.33, -1.02, -2.18, -1.17, -1.19, 1.82, 1.13, -1.19, 0.31, 2.49, -1.01, 0.19, 1.70, -1.41, 0.22, 1.07, 0.03, 0.39, -0.43, -1.00, -0.09, 2.43, 1.01, -0.34, -1.41, 2.10, -1.08, -0.22, -1.74, 0.73, -1.39, -0.81, -1.79, 1.70, 1.89, -0.78, -0.49, -0.51, -1.43, 0.84, 3.66, -3.08]

Process finished with exit code 0

# MLP\_org\_1 (org\_1 with Stochastic Gradient Descent) Iters:5000

Evaluate model....

Examples labeled as 0 classified by model as 0: 13 times

Examples labeled as 1 classified by model as 1: 13 times

Examples labeled as 2 classified by model as 1: 1 times

Examples labeled as 2 classified by model as 2: 13 times

Examples labeled as 2 classified by model as 3: 2 times

Examples labeled as 3 classified by model as 3: 16 times

==========================Scores========================================

Accuracy: 0.9483

Precision: 0.9544

Recall: 0.9531

F1 Score: 0.9537

========================================================================

Original network params: [-0.65, -0.89, -1.27, -0.89, -2.07, -1.44, -1.09, 1.52, 1.29, -1.18, 0.39, 2.30, -0.87, 0.10, 1.49, -1.12, 0.17, 1.05, -0.01, 0.37, -0.42, -0.98, -0.00, 2.29, 0.90, -0.32, -1.43, 1.93, -1.05, -0.37, -1.47, 0.76, -1.33, -0.70, -1.53, 1.39, 1.86, -0.75, -0.49, -0.50, -1.35, 0.90, 3.28, -2.83]

Saved network params: [-0.65, -0.89, -1.27, -0.89, -2.07, -1.44, -1.09, 1.52, 1.29, -1.18, 0.39, 2.30, -0.87, 0.10, 1.49, -1.12, 0.17, 1.05, -0.01, 0.37, -0.42, -0.98, -0.00, 2.29, 0.90, -0.32, -1.43, 1.93, -1.05, -0.37, -1.47, 0.76, -1.33, -0.70, -1.53, 1.39, 1.86, -0.75, -0.49, -0.50, -1.35, 0.90, 3.28, -2.83]