# MLP\_org\_1 (6000 iters):

Evaluate model....

Examples labeled as 0 classified by model as 0: 8 times

Examples labeled as 0 classified by model as 1: 3 times

Examples labeled as 1 classified by model as 1: 17 times

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

Examples labeled as 2 classified by model as 2: 14 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: 13 times

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

Accuracy: 0.8966

Precision: 0.9179

Recall: 0.8827

F1 Score: 0.8999

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

Original network params: [-0.51, -0.68, -1.57, -0.75, -2.00, -1.58, -1.12, 1.80, 0.99, -1.43, 0.62, 2.34, -1.19, 0.49, 1.52, -1.11, 0.14, 0.99, -0.05, 0.45, -0.42, -1.01, -0.23, 2.45, 1.00, -0.31, -1.40, 2.05, -1.17, -0.14, -1.52, 0.80, -1.20, -0.73, -1.81, 1.45, 1.81, -0.77, -0.51, -0.55, -1.37, 0.83, 3.33, -2.79]

Saved network params: [-0.51, -0.68, -1.57, -0.75, -2.00, -1.58, -1.12, 1.80, 0.99, -1.43, 0.62, 2.34, -1.19, 0.49, 1.52, -1.11, 0.14, 0.99, -0.05, 0.45, -0.42, -1.01, -0.23, 2.45, 1.00, -0.31, -1.40, 2.05, -1.17, -0.14, -1.52, 0.80, -1.20, -0.73, -1.81, 1.45, 1.81, -0.77, -0.51, -0.55, -1.37, 0.83, 3.33, -2.79]

# MLP\_org\_1 (with 2500 iters)

Evaluate model....

Examples labeled as 0 classified by model as 0: 14 times

Examples labeled as 0 classified by model as 1: 3 times

Examples labeled as 1 classified by model as 1: 14 times

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

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

Examples labeled as 2 classified by model as 2: 8 times

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

Examples labeled as 3 classified by model as 3: 13 times

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

Accuracy: 0.8448

Precision: 0.8596

Recall: 0.8431

F1 Score: 0.8512

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

Original network params: [-0.84, -0.70, -0.68, -1.22, -1.96, -1.20, -0.52, 1.29, 1.26, -1.08, 0.55, 1.91, -0.53, 0.16, 1.32, -0.84, 0.01, 0.93, -0.24, 0.19, -0.41, -0.92, 0.05, 1.97, 0.75, -0.30, -1.37, 1.58, -1.11, -0.58, -1.14, 0.61, -1.13, -0.37, -1.14, 1.04, 1.88, -0.65, -0.45, -0.53, -1.22, 0.74, 2.86, -2.38]

Saved network params: [-0.84, -0.70, -0.68, -1.22, -1.96, -1.20, -0.52, 1.29, 1.26, -1.08, 0.55, 1.91, -0.53, 0.16, 1.32, -0.84, 0.01, 0.93, -0.24, 0.19, -0.41, -0.92, 0.05, 1.97, 0.75, -0.30, -1.37, 1.58, -1.11, -0.58, -1.14, 0.61, -1.13, -0.37, -1.14, 1.04, 1.88, -0.65, -0.45, -0.53, -1.22, 0.74, 2.86, -2.38]

# MLP\_org\_1 (with 3000 iters)

# Examples labeled as 0 classified by model as 0: 11 times

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

# Examples labeled as 1 classified by model as 1: 15 times

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

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

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

# Examples labeled as 3 classified by model as 3: 13 times

# ==========================Scores========================================

# Accuracy: 0.931

# Precision: 0.9405

# Recall: 0.9375

# F1 Score: 0.939

# ========================================================================

# Original network params: [-0.67, -0.70, -0.95, -0.92, -1.96, -1.45, -0.31, 1.37, 1.04, -0.98, 0.48, 2.15, -0.55, 0.10, 1.36, -0.89, 0.16, 0.91, -0.15, 0.28, -0.41, -0.95, -0.16, 2.14, 0.74, -0.31, -1.39, 1.56, -0.88, -0.43, -1.19, 0.74, -0.88, -0.70, -1.27, 1.10, 1.80, -0.67, -0.52, -0.55, -1.12, 0.85, 2.75, -2.48]

# Saved network params: [-0.67, -0.70, -0.95, -0.92, -1.96, -1.45, -0.31, 1.37, 1.04, -0.98, 0.48, 2.15, -0.55, 0.10, 1.36, -0.89, 0.16, 0.91, -0.15, 0.28, -0.41, -0.95, -0.16, 2.14, 0.74, -0.31, -1.39, 1.56, -0.88, -0.43, -1.19, 0.74, -0.88, -0.70, -1.27, 1.10, 1.80, -0.67, -0.52, -0.55, -1.12, 0.85, 2.75, -2.48]

# MLP\_org\_1 (with 3500 iters)

Evaluate model....

Examples labeled as 0 classified by model as 0: 10 times

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

Examples labeled as 1 classified by model as 1: 23 times

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

Examples labeled as 2 classified by model as 2: 7 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: 0.9483

Precision: 0.9487

Recall: 0.9304

F1 Score: 0.9395

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

Original network params: [-0.58, -0.70, -1.14, -0.90, -1.94, -1.57, -0.60, 1.32, 1.13, -1.15, 0.52, 2.34, -0.81, 0.07, 1.46, -0.98, 0.01, 0.97, 0.10, 0.39, -0.40, -0.97, -0.24, 2.33, 0.86, -0.28, -1.41, 1.67, -0.62, -0.34, -1.31, 0.74, -0.94, -1.11, -1.47, 1.18, 1.83, -0.64, -0.55, -0.56, -1.27, 0.79, 3.04, -2.56]

Saved network params: [-0.58, -0.70, -1.14, -0.90, -1.94, -1.57, -0.60, 1.32, 1.13, -1.15, 0.52, 2.34, -0.81, 0.07, 1.46, -0.98, 0.01, 0.97, 0.10, 0.39, -0.40, -0.97, -0.24, 2.33, 0.86, -0.28, -1.41, 1.67, -0.62, -0.34, -1.31, 0.74, -0.94, -1.11, -1.47, 1.18, 1.83, -0.64, -0.55, -0.56, -1.27, 0.79, 3.04, -2.56]

# MLP\_org\_1 (with 4000 iters)

Examples labeled as 0 classified by model as 0: 13 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 1 classified by model as 2: 1 times

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

Examples labeled as 2 classified by model as 2: 11 times

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

Examples labeled as 3 classified by model as 3: 17 times

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

Accuracy: 0.9138

Precision: 0.9153

Recall: 0.9093

F1 Score: 0.9123

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

Original network params: [-0.69, -0.75, -1.22, -0.91, -1.92, -1.46, -0.94, 1.49, 1.38, -1.20, 0.48, 2.17, -0.67, 0.13, 1.44, -1.10, 0.15, 1.02, -0.14, 0.15, -0.40, -0.95, 0.05, 2.19, 0.88, -0.30, -1.35, 1.87, -1.20, -0.62, -1.43, 0.68, -1.35, -0.49, -1.23, 1.32, 1.82, -0.72, -0.46, -0.54, -1.31, 0.80, 3.20, -2.68]

Saved network params: [-0.69, -0.75, -1.22, -0.91, -1.92, -1.46, -0.94, 1.49, 1.38, -1.20, 0.48, 2.17, -0.67, 0.13, 1.44, -1.10, 0.15, 1.02, -0.14, 0.15, -0.40, -0.95, 0.05, 2.19, 0.88, -0.30, -1.35, 1.87, -1.20, -0.62, -1.43, 0.68, -1.35, -0.49, -1.23, 1.32, 1.82, -0.72, -0.46, -0.54, -1.31, 0.80, 3.20, -2.68]

# MLP\_org\_1 (with 5000 iters)

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

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

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

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

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

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

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

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

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

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

Accuracy: 0.8966

Precision: 0.8973

Recall: 0.9048

F1 Score: 0.901

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

Original network params: [-0.69, -0.79, -1.12, -1.21, -2.06, -1.40, -1.00, 1.72, 1.51, -1.15, 0.29, 2.45, -0.54, 0.08, 1.52, -1.02, -0.46, 1.00, -0.06, 0.22, -0.41, -0.98, 0.03, 2.35, 0.86, -0.31, -1.48, 2.05, -1.27, -0.50, -1.35, 0.62, -1.53, -0.55, -1.34, 1.27, 2.03, -0.70, -0.48, -0.52, -1.37, 0.61, 3.40, -2.64]

Saved network params: [-0.69, -0.79, -1.12, -1.21, -2.06, -1.40, -1.00, 1.72, 1.51, -1.15, 0.29, 2.45, -0.54, 0.08, 1.52, -1.02, -0.46, 1.00, -0.06, 0.22, -0.41, -0.98, 0.03, 2.35, 0.86, -0.31, -1.48, 2.05, -1.27, -0.50, -1.35, 0.62, -1.53, -0.55, -1.34, 1.27, 2.03, -0.70, -0.48, -0.52, -1.37, 0.61, 3.40, -2.64]