Epoch 1/25, Train Loss: 1.3805, Val Loss: 2.3005, Val Accuracy: 33.50%, Val Precision: 0.1333, Val Recall: 0.3350, Val F1 Score: 0.1899

Epoch 2/25, Train Loss: 1.1978, Val Loss: 1.0767, Val Accuracy: 55.75%, Val Precision: 0.5724, Val Recall: 0.5575, Val F1 Score: 0.5556

Epoch 3/25, Train Loss: 1.1023, Val Loss: 1.0394, Val Accuracy: 57.50%, Val Precision: 0.5821, Val Recall: 0.5750, Val F1 Score: 0.5679

Epoch 4/25, Train Loss: 1.0783, Val Loss: 1.0133, Val Accuracy: 59.75%, Val Precision: 0.5856, Val Recall: 0.5975, Val F1 Score: 0.5834

Epoch 5/25, Train Loss: 1.0338, Val Loss: 1.0793, Val Accuracy: 53.00%, Val Precision: 0.5732, Val Recall: 0.5300, Val F1 Score: 0.5361

Epoch 6/25, Train Loss: 1.0154, Val Loss: 0.9665, Val Accuracy: 61.00%, Val Precision: 0.5952, Val Recall: 0.6100, Val F1 Score: 0.6004

Epoch 7/25, Train Loss: 0.9493, Val Loss: 0.9303, Val Accuracy: 63.00%, Val Precision: 0.6338, Val Recall: 0.6300, Val F1 Score: 0.6261

Epoch 8/25, Train Loss: 0.8531, Val Loss: 0.9302, Val Accuracy: 62.50%, Val Precision: 0.6296, Val Recall: 0.6250, Val F1 Score: 0.6236

Epoch 9/25, Train Loss: 0.8497, Val Loss: 0.9258, Val Accuracy: 62.00%, Val Precision: 0.6261, Val Recall: 0.6200, Val F1 Score: 0.6191

Epoch 10/25, Train Loss: 0.8237, Val Loss: 0.9160, Val Accuracy: 63.75%, Val Precision: 0.6446, Val Recall: 0.6375, Val F1 Score: 0.6385

Epoch 11/25, Train Loss: 0.8063, Val Loss: 0.9083, Val Accuracy: 64.00%, Val Precision: 0.6448, Val Recall: 0.6400, Val F1 Score: 0.6393

Epoch 12/25, Train Loss: 0.7774, Val Loss: 0.9108, Val Accuracy: 64.00%, Val Precision: 0.6442, Val Recall: 0.6400, Val F1 Score: 0.6398

Epoch 13/25, Train Loss: 0.8085, Val Loss: 0.9074, Val Accuracy: 65.00%, Val Precision: 0.6570, Val Recall: 0.6500, Val F1 Score: 0.6509

Epoch 14/25, Train Loss: 0.7430, Val Loss: 0.9098, Val Accuracy: 65.50%, Val Precision: 0.6625, Val Recall: 0.6550, Val F1 Score: 0.6563

Epoch 15/25, Train Loss: 0.7618, Val Loss: 0.9087, Val Accuracy: 65.25%, Val Precision: 0.6627, Val Recall: 0.6525, Val F1 Score: 0.6545

Epoch 16/25, Train Loss: 0.7282, Val Loss: 0.9125, Val Accuracy: 64.75%, Val Precision: 0.6578, Val Recall: 0.6475, Val F1 Score: 0.6492

Epoch 17/25, Train Loss: 0.7333, Val Loss: 0.9050, Val Accuracy: 66.00%, Val Precision: 0.6680, Val Recall: 0.6600, Val F1 Score: 0.6613

Epoch 18/25, Train Loss: 0.7446, Val Loss: 0.9074, Val Accuracy: 64.75%, Val Precision: 0.6594, Val Recall: 0.6475, Val F1 Score: 0.6493

Epoch 19/25, Train Loss: 0.7302, Val Loss: 0.9058, Val Accuracy: 65.75%, Val Precision: 0.6691, Val Recall: 0.6575, Val F1 Score: 0.6600

Epoch 20/25, Train Loss: 0.7471, Val Loss: 0.9072, Val Accuracy: 65.00%, Val Precision: 0.6603, Val Recall: 0.6500, Val F1 Score: 0.6515

Epoch 21/25, Train Loss: 0.7455, Val Loss: 0.9038, Val Accuracy: 65.50%, Val Precision: 0.6656, Val Recall: 0.6550, Val F1 Score: 0.6578

Epoch 22/25, Train Loss: 0.7467, Val Loss: 0.9084, Val Accuracy: 65.50%, Val Precision: 0.6657, Val Recall: 0.6550, Val F1 Score: 0.6572

Epoch 23/25, Train Loss: 0.7392, Val Loss: 0.9057, Val Accuracy: 65.75%, Val Precision: 0.6673, Val Recall: 0.6575, Val F1 Score: 0.6595

Epoch 24/25, Train Loss: 0.7485, Val Loss: 0.9126, Val Accuracy: 64.25%, Val Precision: 0.6574, Val Recall: 0.6425, Val F1 Score: 0.6455

Epoch 25/25, Train Loss: 0.7167, Val Loss: 0.9061, Val Accuracy: 65.50%, Val Precision: 0.6669, Val Recall: 0.6550, Val F1 Score: 0.6575

A collage of graphs

Description automatically generated

Test Accuracy: 63.40%, Test Precision: 0.6376, Test Recall: 0.6340, Test F1 Score: 0.6347

Confusion Matrix:

[[63 13 3 15 6]

[17 71 0 4 8]

[ 6 2 78 4 10]

[12 10 6 55 17]

[14 11 4 21 50]]