Epoch 1/25, Train Loss: 3.2284, Val Loss: 1.6585, Val Accuracy: 38.50%, Val Precision: 0.3847, Val Recall: 0.3850, Val F1 Score: 0.3427

Epoch 2/25, Train Loss: 1.6108, Val Loss: 1.3181, Val Accuracy: 47.50%, Val Precision: 0.4981, Val Recall: 0.4750, Val F1 Score: 0.4663

Epoch 3/25, Train Loss: 1.3754, Val Loss: 1.2692, Val Accuracy: 47.75%, Val Precision: 0.4968, Val Recall: 0.4775, Val F1 Score: 0.4751

Epoch 4/25, Train Loss: 1.3296, Val Loss: 1.2415, Val Accuracy: 48.50%, Val Precision: 0.5215, Val Recall: 0.4850, Val F1 Score: 0.4822

Epoch 5/25, Train Loss: 1.2465, Val Loss: 1.1027, Val Accuracy: 57.50%, Val Precision: 0.5476, Val Recall: 0.5750, Val F1 Score: 0.5499

Epoch 6/25, Train Loss: 1.1816, Val Loss: 1.0830, Val Accuracy: 57.00%, Val Precision: 0.5659, Val Recall: 0.5700, Val F1 Score: 0.5546

Epoch 7/25, Train Loss: 1.1302, Val Loss: 1.1060, Val Accuracy: 56.00%, Val Precision: 0.5643, Val Recall: 0.5600, Val F1 Score: 0.5447

Epoch 8/25, Train Loss: 1.0939, Val Loss: 1.0395, Val Accuracy: 58.75%, Val Precision: 0.5716, Val Recall: 0.5875, Val F1 Score: 0.5727

Epoch 9/25, Train Loss: 1.0471, Val Loss: 1.0184, Val Accuracy: 58.25%, Val Precision: 0.5640, Val Recall: 0.5825, Val F1 Score: 0.5693

Epoch 10/25, Train Loss: 1.0015, Val Loss: 1.0163, Val Accuracy: 56.50%, Val Precision: 0.5520, Val Recall: 0.5650, Val F1 Score: 0.5542

Epoch 11/25, Train Loss: 1.0078, Val Loss: 0.9954, Val Accuracy: 58.25%, Val Precision: 0.5615, Val Recall: 0.5825, Val F1 Score: 0.5676

Epoch 12/25, Train Loss: 0.9983, Val Loss: 0.9933, Val Accuracy: 58.75%, Val Precision: 0.5686, Val Recall: 0.5875, Val F1 Score: 0.5694

Epoch 13/25, Train Loss: 0.9817, Val Loss: 0.9759, Val Accuracy: 59.50%, Val Precision: 0.5742, Val Recall: 0.5950, Val F1 Score: 0.5761

Epoch 14/25, Train Loss: 0.9831, Val Loss: 0.9745, Val Accuracy: 58.75%, Val Precision: 0.5647, Val Recall: 0.5875, Val F1 Score: 0.5699

Epoch 15/25, Train Loss: 0.9558, Val Loss: 0.9753, Val Accuracy: 59.25%, Val Precision: 0.5718, Val Recall: 0.5925, Val F1 Score: 0.5769

Epoch 16/25, Train Loss: 0.9507, Val Loss: 0.9740, Val Accuracy: 59.50%, Val Precision: 0.5729, Val Recall: 0.5950, Val F1 Score: 0.5757

Epoch 17/25, Train Loss: 0.9559, Val Loss: 0.9694, Val Accuracy: 59.75%, Val Precision: 0.5738, Val Recall: 0.5975, Val F1 Score: 0.5793

Epoch 18/25, Train Loss: 0.9311, Val Loss: 0.9674, Val Accuracy: 59.50%, Val Precision: 0.5728, Val Recall: 0.5950, Val F1 Score: 0.5792

Epoch 19/25, Train Loss: 0.9682, Val Loss: 0.9675, Val Accuracy: 60.00%, Val Precision: 0.5822, Val Recall: 0.6000, Val F1 Score: 0.5838

Epoch 20/25, Train Loss: 0.9380, Val Loss: 0.9657, Val Accuracy: 59.50%, Val Precision: 0.5753, Val Recall: 0.5950, Val F1 Score: 0.5807

Epoch 21/25, Train Loss: 0.9676, Val Loss: 0.9771, Val Accuracy: 59.25%, Val Precision: 0.5751, Val Recall: 0.5925, Val F1 Score: 0.5752

Epoch 22/25, Train Loss: 0.9552, Val Loss: 0.9696, Val Accuracy: 60.00%, Val Precision: 0.5841, Val Recall: 0.6000, Val F1 Score: 0.5860

Epoch 23/25, Train Loss: 0.9597, Val Loss: 0.9701, Val Accuracy: 60.00%, Val Precision: 0.5794, Val Recall: 0.6000, Val F1 Score: 0.5829

Epoch 24/25, Train Loss: 0.9308, Val Loss: 0.9699, Val Accuracy: 60.00%, Val Precision: 0.5808, Val Recall: 0.6000, Val F1 Score: 0.5841

Epoch 25/25, Train Loss: 0.9554, Val Loss: 0.9695, Val Accuracy: 59.50%, Val Precision: 0.5750, Val Recall: 0.5950, Val F1 Score: 0.5790

A screenshot of a graph

Description automatically generated

Test Accuracy: 60.20%, Test Precision: 0.6018, Test Recall: 0.6020, Test F1 Score: 0.5972

Confusion Matrix:

[[58 14 6 20 2]

[20 68 3 2 7]

[ 8 0 76 5 11]

[16 9 7 60 8]

[11 19 13 18 39]]