Epoch 1/25, Train Loss: 1.3433, Val Loss: 2.0850, Val Accuracy: 37.50%, Val Precision: 0.1757, Val Recall: 0.3750, Val F1 Score: 0.2307

Epoch 2/25, Train Loss: 1.0814, Val Loss: 1.1293, Val Accuracy: 54.25%, Val Precision: 0.5539, Val Recall: 0.5425, Val F1 Score: 0.5371

Epoch 3/25, Train Loss: 0.9692, Val Loss: 1.0070, Val Accuracy: 60.75%, Val Precision: 0.5960, Val Recall: 0.6075, Val F1 Score: 0.5998

Epoch 4/25, Train Loss: 0.8858, Val Loss: 0.9924, Val Accuracy: 62.75%, Val Precision: 0.6198, Val Recall: 0.6275, Val F1 Score: 0.6204

Epoch 5/25, Train Loss: 0.8130, Val Loss: 1.0398, Val Accuracy: 60.25%, Val Precision: 0.6067, Val Recall: 0.6025, Val F1 Score: 0.5916

Epoch 6/25, Train Loss: 0.7032, Val Loss: 1.0481, Val Accuracy: 58.50%, Val Precision: 0.6432, Val Recall: 0.5850, Val F1 Score: 0.5945

Epoch 7/25, Train Loss: 0.6445, Val Loss: 0.9402, Val Accuracy: 59.75%, Val Precision: 0.6230, Val Recall: 0.5975, Val F1 Score: 0.5965

Epoch 8/25, Train Loss: 0.5230, Val Loss: 0.9408, Val Accuracy: 62.75%, Val Precision: 0.6323, Val Recall: 0.6275, Val F1 Score: 0.6265

Epoch 9/25, Train Loss: 0.4869, Val Loss: 0.9537, Val Accuracy: 61.00%, Val Precision: 0.6145, Val Recall: 0.6100, Val F1 Score: 0.6087

Epoch 10/25, Train Loss: 0.4694, Val Loss: 0.9540, Val Accuracy: 61.50%, Val Precision: 0.6250, Val Recall: 0.6150, Val F1 Score: 0.6162

Epoch 11/25, Train Loss: 0.4504, Val Loss: 0.9590, Val Accuracy: 62.50%, Val Precision: 0.6280, Val Recall: 0.6250, Val F1 Score: 0.6242

Epoch 12/25, Train Loss: 0.4283, Val Loss: 0.9610, Val Accuracy: 60.75%, Val Precision: 0.6183, Val Recall: 0.6075, Val F1 Score: 0.6085

Epoch 13/25, Train Loss: 0.4167, Val Loss: 0.9754, Val Accuracy: 62.00%, Val Precision: 0.6226, Val Recall: 0.6200, Val F1 Score: 0.6191

Epoch 14/25, Train Loss: 0.3895, Val Loss: 0.9733, Val Accuracy: 61.50%, Val Precision: 0.6292, Val Recall: 0.6150, Val F1 Score: 0.6144

Epoch 15/25, Train Loss: 0.3783, Val Loss: 0.9723, Val Accuracy: 61.25%, Val Precision: 0.6237, Val Recall: 0.6125, Val F1 Score: 0.6112

Epoch 16/25, Train Loss: 0.3824, Val Loss: 0.9697, Val Accuracy: 61.50%, Val Precision: 0.6242, Val Recall: 0.6150, Val F1 Score: 0.6145

Epoch 17/25, Train Loss: 0.3839, Val Loss: 0.9715, Val Accuracy: 61.50%, Val Precision: 0.6233, Val Recall: 0.6150, Val F1 Score: 0.6137

Epoch 18/25, Train Loss: 0.3608, Val Loss: 0.9704, Val Accuracy: 61.75%, Val Precision: 0.6247, Val Recall: 0.6175, Val F1 Score: 0.6168

Epoch 19/25, Train Loss: 0.3859, Val Loss: 0.9670, Val Accuracy: 62.50%, Val Precision: 0.6348, Val Recall: 0.6250, Val F1 Score: 0.6268

Epoch 20/25, Train Loss: 0.3830, Val Loss: 0.9748, Val Accuracy: 61.50%, Val Precision: 0.6260, Val Recall: 0.6150, Val F1 Score: 0.6148

Epoch 21/25, Train Loss: 0.3644, Val Loss: 0.9704, Val Accuracy: 61.25%, Val Precision: 0.6242, Val Recall: 0.6125, Val F1 Score: 0.6123

Epoch 22/25, Train Loss: 0.3644, Val Loss: 0.9687, Val Accuracy: 60.50%, Val Precision: 0.6156, Val Recall: 0.6050, Val F1 Score: 0.6042

Epoch 23/25, Train Loss: 0.3640, Val Loss: 0.9690, Val Accuracy: 61.25%, Val Precision: 0.6207, Val Recall: 0.6125, Val F1 Score: 0.6122

Epoch 24/25, Train Loss: 0.3746, Val Loss: 0.9738, Val Accuracy: 60.75%, Val Precision: 0.6204, Val Recall: 0.6075, Val F1 Score: 0.6075

Epoch 25/25, Train Loss: 0.3743, Val Loss: 0.9692, Val Accuracy: 61.25%, Val Precision: 0.6231, Val Recall: 0.6125, Val F1 Score: 0.6133

A screenshot of a graph

Description automatically generated

Test Accuracy: 63.00%, Test Precision: 0.6333, Test Recall: 0.6300, Test F1 Score: 0.6308

Confusion Matrix:

[[62 10 5 11 12]

[12 73 1 5 9]

[ 7 1 77 3 12]

[18 9 3 51 19]

[12 9 8 19 52]]