Epoch 1/25, Train Loss: 3.5465, Val Loss: 2.3700, Val Accuracy: 35.25%, Val Precision: 0.2299, Val Recall: 0.3525, Val F1 Score: 0.2353

Epoch 2/25, Train Loss: 1.8053, Val Loss: 2.0719, Val Accuracy: 31.25%, Val Precision: 0.1989, Val Recall: 0.3125, Val F1 Score: 0.2139

Epoch 3/25, Train Loss: 1.5444, Val Loss: 1.5274, Val Accuracy: 36.25%, Val Precision: 0.4003, Val Recall: 0.3625, Val F1 Score: 0.3096

Epoch 4/25, Train Loss: 1.4148, Val Loss: 1.2214, Val Accuracy: 49.75%, Val Precision: 0.5029, Val Recall: 0.4975, Val F1 Score: 0.4882

Epoch 5/25, Train Loss: 1.2909, Val Loss: 1.1744, Val Accuracy: 52.25%, Val Precision: 0.5208, Val Recall: 0.5225, Val F1 Score: 0.4950

Epoch 6/25, Train Loss: 1.2507, Val Loss: 1.1784, Val Accuracy: 53.25%, Val Precision: 0.5261, Val Recall: 0.5325, Val F1 Score: 0.5166

Epoch 7/25, Train Loss: 1.2294, Val Loss: 1.1089, Val Accuracy: 56.25%, Val Precision: 0.5804, Val Recall: 0.5625, Val F1 Score: 0.5492

Epoch 8/25, Train Loss: 1.1698, Val Loss: 1.1128, Val Accuracy: 55.50%, Val Precision: 0.5801, Val Recall: 0.5550, Val F1 Score: 0.5452

Epoch 9/25, Train Loss: 1.1126, Val Loss: 1.1092, Val Accuracy: 55.50%, Val Precision: 0.5744, Val Recall: 0.5550, Val F1 Score: 0.5446

Epoch 10/25, Train Loss: 1.1005, Val Loss: 1.0819, Val Accuracy: 56.25%, Val Precision: 0.5678, Val Recall: 0.5625, Val F1 Score: 0.5481

Epoch 11/25, Train Loss: 1.0725, Val Loss: 1.0842, Val Accuracy: 57.25%, Val Precision: 0.5789, Val Recall: 0.5725, Val F1 Score: 0.5565

Epoch 12/25, Train Loss: 1.0582, Val Loss: 1.0723, Val Accuracy: 57.50%, Val Precision: 0.5794, Val Recall: 0.5750, Val F1 Score: 0.5586

Epoch 13/25, Train Loss: 1.0659, Val Loss: 1.0721, Val Accuracy: 55.50%, Val Precision: 0.5636, Val Recall: 0.5550, Val F1 Score: 0.5415

Epoch 14/25, Train Loss: 1.0246, Val Loss: 1.0506, Val Accuracy: 58.25%, Val Precision: 0.5797, Val Recall: 0.5825, Val F1 Score: 0.5684

Epoch 15/25, Train Loss: 1.0229, Val Loss: 1.0548, Val Accuracy: 56.50%, Val Precision: 0.5639, Val Recall: 0.5650, Val F1 Score: 0.5511

Epoch 16/25, Train Loss: 1.0161, Val Loss: 1.0521, Val Accuracy: 57.50%, Val Precision: 0.5769, Val Recall: 0.5750, Val F1 Score: 0.5630

Epoch 17/25, Train Loss: 1.0113, Val Loss: 1.0499, Val Accuracy: 56.75%, Val Precision: 0.5725, Val Recall: 0.5675, Val F1 Score: 0.5566

Epoch 18/25, Train Loss: 1.0064, Val Loss: 1.0526, Val Accuracy: 57.75%, Val Precision: 0.5831, Val Recall: 0.5775, Val F1 Score: 0.5664

Epoch 19/25, Train Loss: 1.0415, Val Loss: 1.0512, Val Accuracy: 58.00%, Val Precision: 0.5807, Val Recall: 0.5800, Val F1 Score: 0.5681

Epoch 20/25, Train Loss: 1.0245, Val Loss: 1.0508, Val Accuracy: 57.25%, Val Precision: 0.5752, Val Recall: 0.5725, Val F1 Score: 0.5607

Epoch 21/25, Train Loss: 1.0236, Val Loss: 1.0464, Val Accuracy: 57.00%, Val Precision: 0.5730, Val Recall: 0.5700, Val F1 Score: 0.5590

Epoch 22/25, Train Loss: 1.0296, Val Loss: 1.0506, Val Accuracy: 57.00%, Val Precision: 0.5772, Val Recall: 0.5700, Val F1 Score: 0.5590

Epoch 23/25, Train Loss: 1.0046, Val Loss: 1.0530, Val Accuracy: 56.75%, Val Precision: 0.5752, Val Recall: 0.5675, Val F1 Score: 0.5561

Epoch 24/25, Train Loss: 1.0193, Val Loss: 1.0536, Val Accuracy: 56.75%, Val Precision: 0.5741, Val Recall: 0.5675, Val F1 Score: 0.5560

Epoch 25/25, Train Loss: 1.0024, Val Loss: 1.0506, Val Accuracy: 57.50%, Val Precision: 0.5803, Val Recall: 0.5750, Val F1 Score: 0.5637

A graph of a graph

Description automatically generated with medium confidence

Test Accuracy: 61.40%, Test Precision: 0.6132, Test Recall: 0.6140, Test F1 Score: 0.6072

Confusion Matrix:

[[53 21 5 13 8]

[12 81 0 2 5]

[ 4 3 79 5 9]

[15 16 5 51 13]

[ 8 21 12 16 43]]