

[255/255 00:51, Epoch 5/5]

Epoch	Training Loss	Validation Loss	Accuracy	Precision	Recall	F1
1	0.662100	0.588391	0.687500	0.701534	0.687500	0.681963
2	0.508200	0.563485	0.715278	0.720423	0.715278	0.713607
3	0.373400	0.557983	0.729167	0.739564	0.729167	0.726196
4	0.305700	0.549362	0.777778	0.779720	0.777778	0.777391
5	0.248300	0.543782	0.791667	0.791892	0.791667	0.791626

```
[8]: {'train_runtime': 51.5252,  
      'train_samples_per_second': 79.185,  
      'train_steps_per_second': 4.949,  
      'total_flos': 47162533527744.0,  
      'train_loss': 0.41638573291254977,  
      'epoch': 5.0}
```

```
Evaluating on validation data...  
{'epoch': 5.0,  
 'eval_accuracy': 0.7916666666666666,  
 'eval_f1': 0.7916264711557013,  
 'eval_loss': 0.5437819957733154,  
 'eval_precision': 0.791891891891892,  
 'eval_recall': 0.7916666666666666,  
 'eval_runtime': 0.1667,  
 'eval_samples_per_second': 864.048,  
 'eval_steps_per_second': 54.003}
```

```
Final Validation Summary:  
Accuracy: 0.7917  
F1 Score: 0.7916  
Precision: 0.7919  
Recall: 0.7917
```

```
Best Epoch Summary (by F1):  
Best epoch: 5.0  
Accuracy: 0.7917  
F1 Score: 0.7916  
Precision: 0.7919  
Recall: 0.7917  
Best checkpoint: outputs/checkpoint-255
```