train\_losses = train\_model(  
 train\_rgb\_dir,  
 train\_thermal\_dir,  
 matched\_rgb,  
 matched\_thermal,  
 epochs=10,  
 batch\_size=16,  
 lr=1e-4,  
 max\_samples=None)

Validation Accuracy: 0.8530

Validation Precision: 0.8264

Validation Recall: 0.9222

Validation F1 Score: 0.8717



