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Epoch 1/20
30/30 [=====] - 3s 69ms/step - loss: 0.5510 - binary_accuracy: 0.7915 - val_loss: 0.4405 - v
al_binary_accuracy: 0.8638
Epoch 2/20
30/30 [=====] - 1s 22ms/step - loss: 0.3559 - binary_accuracy: 0.8937 - val_loss: 0.3347 - v
al_binary_accuracy: 0.8797
Epoch 3/20
30/30 [=====] - 0s 16ms/step - loss: 0.2607 - binary_accuracy: 0.9178 - val_loss: 0.2965 - v
al_binary_accuracy: 0.8870
Epoch 4/20
30/30 [=====] - 1s 22ms/step - loss: 0.2052 - binary_accuracy: 0.9339 - val_loss: 0.2763 - v
al_binary_accuracy: 0.8928
Epoch 5/20
30/30 [=====] - 1s 22ms/step - loss: 0.1675 - binary_accuracy: 0.9483 - val_loss: 0.3160 - v
al_binary_accuracy: 0.8733
Epoch 6/20
30/30 [=====] - 1s 22ms/step - loss: 0.1383 - binary_accuracy: 0.9565 - val_loss: 0.2781 - v
al_binary_accuracy: 0.8882
Epoch 7/20
30/30 [=====] - 1s 23ms/step - loss: 0.1132 - binary_accuracy: 0.9673 - val_loss: 0.3025 - v
al_binary_accuracy: 0.8820
Epoch 8/20
30/30 [=====] - 1s 20ms/step - loss: 0.0949 - binary_accuracy: 0.9730 - val_loss: 0.3082 - v
al_binary_accuracy: 0.8841
Epoch 9/20
30/30 [=====] - 1s 23ms/step - loss: 0.0795 - binary_accuracy: 0.9789 - val_loss: 0.3615 - v
al_binary_accuracy: 0.8757
Epoch 10/20
30/30 [=====] - 1s 19ms/step - loss: 0.0658 - binary_accuracy: 0.9824 - val_loss: 0.3449 - v
al_binary_accuracy: 0.8822
Epoch 11/20
30/30 [=====] - 1s 31ms/step - loss: 0.0517 - binary_accuracy: 0.9888 - val_loss: 0.3716 - v
al_binary_accuracy: 0.8765
Epoch 12/20
30/30 [=====] - 1s 27ms/step - loss: 0.0436 - binary_accuracy: 0.9903 - val_loss: 0.3972 - v
al_binary_accuracy: 0.8792
Epoch 13/20
30/30 [=====] - 1s 25ms/step - loss: 0.0338 - binary_accuracy: 0.9938 - val_loss: 0.4472 - v
al_binary_accuracy: 0.8654
Epoch 14/20
30/30 [=====] - 1s 21ms/step - loss: 0.0279 - binary_accuracy: 0.9954 - val_loss: 0.4716 - v
al_binary_accuracy: 0.8729
Epoch 15/20
30/30 [=====] - 0s 17ms/step - loss: 0.0224 - binary_accuracy: 0.9967 - val_loss: 0.4900 - v
al_binary_accuracy: 0.8744
Epoch 16/20
30/30 [=====] - 0s 16ms/step - loss: 0.0170 - binary_accuracy: 0.9975 - val_loss: 0.5157 - v
al_binary_accuracy: 0.8719
Epoch 17/20
30/30 [=====] - 1s 30ms/step - loss: 0.0119 - binary_accuracy: 0.9989 - val_loss: 0.5458 - v
al_binary_accuracy: 0.8676
Epoch 18/20
30/30 [=====] - 1s 22ms/step - loss: 0.0096 - binary_accuracy: 0.9993 - val_loss: 0.5899 - v
al_binary_accuracy: 0.8700
Epoch 19/20
30/30 [=====] - 1s 24ms/step - loss: 0.0083 - binary_accuracy: 0.9989 - val_loss: 0.6137 - v
al_binary_accuracy: 0.8683
Epoch 20/20
30/30 [=====] - 1s 22ms/step - loss: 0.0046 - binary_accuracy: 0.9997 - val_loss: 0.7121 - v
al_binary_accuracy: 0.8634
history_dict.keys(): dict_keys(['loss', 'binary_accuracy', 'val_loss', 'val_binary_accuracy'])
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