Model Output

%runfile 'C:/Users/R c/.spyder-py3/breast_cancer_model_optimized.py' --wdir
2025-08-24 14:36:41.349697: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.
2025-08-24 14:36:47.317598: I tensorflow/core/util/port.cc:153] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.
WARNING:tensorflow:From C:\Users\R c\anaconda3\Lib\site-packages\keras\src\backend\common\global_state.py:82: The name tf.reset_default_graph is deprecated. Please use tf.compat.v1.reset_default_graph instead.

Starting breast cancer classification training...
Found 24576 files belonging to 2 classes.
Using 19661 files for training.
2025-08-24 14:36:51.625440: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
To enable the following instructions: SSE3 SSE4.1 SSE4.2 AVX AVX2 FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
Found 24576 files belonging to 2 classes.
Using 4915 files for validation.
2025-08-24 14:38:09.256417: I tensorflow/core/framework/local_rendezvous.cc:407] Local rendezvous is aborting with status: OUT_OF_RANGE: End of sequence
Model: "functional_1"

Layer (type)	Output Shape	Param #
input_layer_2 (InputLayer)	(None, 224, 224, 3)	0
mobilenetv2_1.00_224 (Functional)	(None, 1280)	2,257,984
dense (Dense)	(None, 128)	163,968
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 1)	129

Total params: 2,422,081 (9.24 MB)

Trainable params: 164,097 (641.00 KB)
Non-trainable params: 2,257,984 (8.61 MB)

=== TRAINING ===
Epoch 1/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 592ms/step - accuracy: 0.5992 - auc: 0.6390 - loss: 0.6702WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 478s 766ms/step - accuracy: 0.6433 - auc: 0.6998 - loss: 0.6293 - val_accuracy: 0.7320 - val_auc: 0.8101 - val_loss: 0.5586 - learning_rate: 1.0000e-04
Epoch 2/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 547ms/step - accuracy: 0.7227 - auc: 0.7932 - loss: 0.5558WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 411s 667ms/step - accuracy: 0.7307 - auc: 0.8039 - loss: 0.5449 - val_accuracy: 0.7703 - val_auc: 0.8528 - val_loss: 0.4999 - learning_rate: 1.0000e-04
Epoch 3/30
218/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 3:44 566ms/step - accuracy: 0.7740 - auc: 0.8545 - loss: 0.4874^CTerminate batch job (Y/N)?

The kernel died, restarting...

%runfile 'C:/Users/R c/.spyder-py3/breast_cancer_model_optimized.py' --wdir
WARNING:tensorflow:From C:\Users\R c\anaconda3\Lib\site-packages\keras\src\backend\common\global_state.py:82: The name tf.reset_default_graph is deprecated. Please use tf.compat.v1.reset_default_graph instead.

Starting breast cancer classification training...
Found 24576 files belonging to 2 classes.
Using 19661 files for training.
Found 24576 files belonging to 2 classes.
Using 4915 files for validation.
Model: "functional_1"

Layer (type)	Output Shape	Param #

input_layer_2 (InputLayer)	(None, 224, 224, 3)	0
mobilenetv2_1.00_224 (Functional)	(None, 1280)	2,257,984
dense (Dense)	(None, 128)	163,968
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 1)	129

Total params: 2,422,081 (9.24 MB)
Trainable params: 164,097 (641.00 KB)
Non-trainable params: 2,257,984 (8.61 MB)

=== TRAINING ===
Epoch 1/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 451ms/step - accuracy: 0.5926 - auc: 0.6236 - loss: 0.6804WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 348s 556ms/step - accuracy: 0.6367 - auc: 0.6874 - loss: 0.6381 - val_accuracy: 0.7449 - val_auc: 0.8167 - val_loss: 0.5501 - learning_rate: 1.0000e-04
Epoch 2/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 498ms/step - accuracy: 0.7207 - auc: 0.7936 - loss: 0.5552WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 375s 609ms/step - accuracy: 0.7292 - auc: 0.8061 - loss: 0.5425 - val_accuracy: 0.7778 - val_auc: 0.8542 - val_loss: 0.4948 - learning_rate: 1.0000e-04
Epoch 3/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 487ms/step - accuracy: 0.7706 - auc: 0.8479 - loss: 0.4937WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 376s 611ms/step - accuracy: 0.7725 - auc: 0.8519 - loss: 0.4869 - val_accuracy: 0.7986 - val_auc: 0.8777 - val_loss: 0.4602 - learning_rate: 1.0000e-04
Epoch 4/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 608ms/step - accuracy: 0.7907 - auc: 0.8730 - loss: 0.4555WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 439s 712ms/step - accuracy: 0.7935 - auc: 0.8774 - loss: 0.4487 - val_accuracy: 0.8187 - val_auc: 0.8972 - val_loss: 0.4255 - learning_rate: 1.0000e-04
Epoch 5/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 486ms/step - accuracy: 0.8103 - auc: 0.8906 - loss: 0.4263WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 363s 589ms/step - accuracy: 0.8078 - auc: 0.8905 - loss: 0.4267 - val_accuracy: 0.8208 - val_auc: 0.9041 - val_loss: 0.4133 - learning_rate: 1.0000e-04
Epoch 6/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 490ms/step - accuracy: 0.8200 - auc: 0.9043 - loss: 0.4018WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 368s 597ms/step - accuracy: 0.8216 - auc: 0.9053 - loss: 0.3994 - val_accuracy: 0.8264 - val_auc: 0.9085 - val_loss: 0.4023 - learning_rate: 1.0000e-04
Epoch 7/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 504ms/step - accuracy: 0.8362 - auc: 0.9124 - loss: 0.3859WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 379s 616ms/step - accuracy: 0.8337 - auc: 0.9122 - loss: 0.3862 - val_accuracy: 0.8338 - val_auc: 0.9179 - val_loss: 0.3847 - learning_rate: 1.0000e-04
Epoch 8/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 511ms/step - accuracy: 0.8518 - auc: 0.9283 - loss: 0.3550WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 384s 623ms/step - accuracy: 0.8467 - auc: 0.9257 - loss: 0.3586 - val_accuracy: 0.8466 - val_auc: 0.9268 - val_loss: 0.3633 - learning_rate: 1.0000e-04
Epoch 9/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 512ms/step - accuracy: 0.8526 - auc: 0.9299 - loss: 0.3477WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 386s 626ms/step - accuracy: 0.8544 - auc: 0.9322 - loss: 0.3437 - val_accuracy: 0.8462 - val_auc: 0.9296 - val_loss: 0.3628 - learning_rate: 1.0000e-04
Epoch 10/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 511ms/step - accuracy: 0.8622 - auc: 0.9361 - loss: 0.3338WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 384s 623ms/step - accuracy: 0.8598 - auc: 0.9353 - loss: 0.3351 - val_accuracy: 0.8496 - val_auc: 0.9301 - val_loss: 0.3496 - learning_rate: 1.0000e-04
Epoch 11/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 552ms/step - accuracy: 0.8714 - auc: 0.9450 - loss: 0.3121WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 419s 681ms/step - accuracy: 0.8662 - auc: 0.9429 - loss: 0.3164 - val_accuracy: 0.8625 - val_auc: 0.9399 - val_loss: 0.3300 - learning_rate: 1.0000e-04
Epoch 12/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 522ms/step - accuracy: 0.8727 - auc: 0.9462 - loss: 0.3077WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 384s 623ms/step - accuracy: 0.8730 - auc: 0.9457 - loss: 0.3090 - val_accuracy: 0.8700 - val_auc: 0.9447 - val_loss: 0.3185 - learning_rate: 1.0000e-04
Epoch 13/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 334s 543ms/step - accuracy: 0.8790 - auc: 0.9512 - loss: 0.2944 - val_accuracy: 0.8653 - val_auc: 0.9443 - val_loss: 0.3195 - learning_rate: 1.0000e-04
Epoch 14/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 615ms/step - accuracy: 0.8879 - auc: 0.9585 - loss: 0.2749WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 523s 849ms/step - accuracy: 0.8858 - auc: 0.9564 - loss: 0.2792 - val_accuracy: 0.8716 - val_auc: 0.9481 - val_loss: 0.3009 - learning_rate: 1.0000e-04

Epoch 15/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 643ms/step - accuracy: 0.8891 - auc: 0.9589 - loss: 0.2706WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 470s 761ms/step - accuracy: 0.8875 - auc: 0.9574 - loss: 0.2752 - val_accuracy: 0.8781 - val_auc: 0.9515 - val_loss: 0.2935 - learning_rate: 1.0000e-04

Epoch 16/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 482ms/step - accuracy: 0.8941 - auc: 0.9611 - loss: 0.2630WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 369s 598ms/step - accuracy: 0.8890 - auc: 0.9582 - loss: 0.2715 - val_accuracy: 0.8850 - val_auc: 0.9552 - val_loss: 0.2833 - learning_rate: 1.0000e-04

Epoch 17/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 474ms/step - accuracy: 0.8987 - auc: 0.9628 - loss: 0.2581WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 358s 581ms/step - accuracy: 0.8956 - auc: 0.9614 - loss: 0.2624 - val_accuracy: 0.8844 - val_auc: 0.9578 - val_loss: 0.2855 - learning_rate: 1.0000e-04

Epoch 18/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 615ms/step - accuracy: 0.9024 - auc: 0.9656 - loss: 0.2485WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 497s 768ms/step - accuracy: 0.8978 - auc: 0.9641 - loss: 0.2529 - val_accuracy: 0.8883 - val_auc: 0.9589 - val_loss: 0.2742 - learning_rate: 1.0000e-04

Epoch 19/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 706ms/step - accuracy: 0.9032 - auc: 0.9665 - loss: 0.2456WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 529s 859ms/step - accuracy: 0.9006 - auc: 0.9655 - loss: 0.2483 - val_accuracy: 0.8930 - val_auc: 0.9614 - val_loss: 0.2668 - learning_rate: 1.0000e-04

Epoch 20/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 730ms/step - accuracy: 0.9062 - auc: 0.9689 - loss: 0.2365WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 542s 879ms/step - accuracy: 0.9028 - auc: 0.9670 - loss: 0.2422 - val_accuracy: 0.8970 - val_auc: 0.9647 - val_loss: 0.2558 - learning_rate: 1.0000e-04

Epoch 21/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 655ms/step - accuracy: 0.9066 - auc: 0.9694 - loss: 0.2340WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 492s 798ms/step - accuracy: 0.9075 - auc: 0.9697 - loss: 0.2337 - val_accuracy: 0.8993 - val_auc: 0.9664 - val_loss: 0.2587 - learning_rate: 1.0000e-04

Epoch 22/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 648ms/step - accuracy: 0.9122 - auc: 0.9726 - loss: 0.2221

Epoch 22: ReduceLROnPlateau reducing learning rate to 4.999999873689376e-05.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 486s 790ms/step - accuracy: 0.9094 - auc: 0.9716 - loss: 0.2258 - val_accuracy: 0.8936 - val_auc: 0.9636 - val_loss: 0.2564 - learning_rate: 1.0000e-04

Epoch 23/30

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 655ms/step - accuracy: 0.9194 - auc: 0.9765 - loss: 0.2100WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 492s 798ms/step - accuracy: 0.9161 - auc: 0.9757 - loss: 0.2121 - val_accuracy: 0.9040 - val_auc: 0.9691 - val_loss: 0.2373 - learning_rate: 5.0000e-05

Epoch 24/30

```
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 649ms/step - accuracy:
0.9158 - auc: 0.9753 - loss: 0.2119WARNING:absl:You are saving your model as an
HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is
considered legacy. We recommend using instead the native Keras format, e.g.
`model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 488s 793ms/step - accuracy:
0.9161 - auc: 0.9744 - loss: 0.2154 - val_accuracy: 0.9097 - val_auc: 0.9705 - val_loss:
0.2314 - learning_rate: 5.0000e-05
Epoch 25/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 489s 794ms/step - accuracy:
0.9148 - auc: 0.9758 - loss: 0.2100 - val_accuracy: 0.9099 - val_auc: 0.9702 - val_loss:
0.2332 - learning_rate: 5.0000e-05
Epoch 26/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 655ms/step - accuracy:
0.9233 - auc: 0.9789 - loss: 0.1988WARNING:absl:You are saving your model as an
HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is
considered legacy. We recommend using instead the native Keras format, e.g.
`model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 499s 810ms/step - accuracy:
0.9182 - auc: 0.9766 - loss: 0.2071 - val_accuracy: 0.9117 - val_auc: 0.9717 - val_loss:
0.2285 - learning_rate: 5.0000e-05
Epoch 27/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 653ms/step - accuracy:
0.9174 - auc: 0.9754 - loss: 0.2095WARNING:absl:You are saving your model as an
HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is
considered legacy. We recommend using instead the native Keras format, e.g.
`model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 483s 784ms/step - accuracy:
0.9183 - auc: 0.9760 - loss: 0.2086 - val_accuracy: 0.9150 - val_auc: 0.9729 - val_loss:
0.2235 - learning_rate: 5.0000e-05
Epoch 28/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 457s 742ms/step - accuracy:
0.9180 - auc: 0.9776 - loss: 0.2035 - val_accuracy: 0.9119 - val_auc: 0.9714 - val_loss:
0.2282 - learning_rate: 5.0000e-05
Epoch 29/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 607ms/step - accuracy:
0.9238 - auc: 0.9788 - loss: 0.1973
Epoch 29: ReduceLROnPlateau reducing learning rate to 2.499999936844688e-05.
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 455s 738ms/step - accuracy:
0.9243 - auc: 0.9785 - loss: 0.1988 - val_accuracy: 0.9121 - val_auc: 0.9725 - val_loss:
0.2244 - learning_rate: 5.0000e-05
Epoch 30/30
615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 0s 523ms/step - accuracy:
0.9262 - auc: 0.9805 - loss: 0.1908WARNING:absl:You are saving your model as an
```

HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

615/615 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 395s 641ms/step - **accuracy: 0.9262 - auc: 0.9802 - loss: 0.1918 - val_accuracy: 0.9164 - val_auc: 0.9733 - val_loss: 0.2191 - learning_rate: 2.5000e-05**

WARNING:absl:You are saving your model as an HDF5 file via `model.save()` or `keras.saving.save_model(model)`. This file format is considered legacy. We recommend using instead the native Keras format, e.g. `model.save('my_model.keras')` or `keras.saving.save_model(model, 'my_model.keras')`.

Keras model saved successfully!

Starting TFLite conversion...
INFO:tensorflow:Assets written to:
C:\Users\RC2B28~1\AppData\Local\Temp\tmpuf_pvh5_\assets
INFO:tensorflow:Assets written to:
C:\Users\RC2B28~1\AppData\Local\Temp\tmpuf_pvh5_\assets
Saved artifact at 'C:\Users\RC2B28~1\AppData\Local\Temp\tmpuf_pvh5_'. The following endpoints are available:

* Endpoint 'serve'
  args_0 (POSITIONAL_ONLY): TensorSpec(shape=(None, 224, 224, 3), dtype=tf.float32, name='keras_tensor_158')
Output Type:
  TensorSpec(shape=(None, 1), dtype=tf.float32, name=None)
Captures:
  2154840954384: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840954576: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840954768: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840953808: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840954960: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840955536: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840956112: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840955152: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840955728: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840956304: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840955920: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840957264: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840957072: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840957456: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840955344: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840956688: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840957840: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840957648: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840956496: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840958032: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840959760: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840959952: TensorSpec(shape=(), dtype=tf.resource, name=None)
  2154840960912: TensorSpec(shape=(), dtype=tf.resource, name=None)

2154840960720: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840960144: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840961680: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840962256: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840962064: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840961296: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840962448: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840962832: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840963600: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840963408: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840963792: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840961488: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840963024: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840964368: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840964176: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840963216: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840964560: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840964944: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842341840: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342032: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154840961872: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842341648: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342416: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842343184: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342992: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842343376: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842341456: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342608: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842344144: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842343952: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842344336: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342224: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842343568: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842345104: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842344912: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842345296: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842342800: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842344528: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842346064: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842345872: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842346256: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842343760: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842345488: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842347024: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842346832: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842347216: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842344720: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842346448: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842347984: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842347792: TensorSpec(shape=(), dtype=tf.resource, name=None)

2154842348176: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842345680: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842348368: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842349136: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842348944: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842349328: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842347408: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842349520: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842350288: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842350096: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842350480: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842348560: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842349712: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842351248: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842351056: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842351440: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842346640: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842350672: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352208: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352016: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352400: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842349904: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842351632: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842353168: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352976: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842353360: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842350864: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352592: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842354128: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842353936: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842354320: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842351824: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842353552: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842355088: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842354896: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842355280: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842352784: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842354512: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842356048: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842355856: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842356240: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842353744: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842355472: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842357008: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842356816: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842357200: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842354704: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842356432: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842357392: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842355664: TensorSpec(shape=(), dtype=tf.resource, name=None)

2154842356624: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154842357584: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847715792: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847716560: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847716368: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847716752: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847715408: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847715984: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847717520: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847717328: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847717712: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847715600: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847716944: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847718480: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847718288: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847718672: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847716176: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847717904: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847719440: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847719248: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847719632: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847717136: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847718864: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720400: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720208: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720592: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847718096: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847719824: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847721360: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847721168: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847721552: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847719056: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720784: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847722320: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847722128: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847722512: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720016: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847721744: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847723280: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847723088: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847723472: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847720976: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847722704: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847724240: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847724048: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847724432: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847721936: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847723664: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847725200: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847725008: TensorSpec(shape=(), dtype=tf.resource, name=None)

2154847725392: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847722896: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847724624: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847726160: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847725968: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847726352: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847723856: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847725584: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847727120: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847726928: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847727312: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847724816: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847726544: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847728080: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847727888: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847728272: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847725776: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847727504: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847729040: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847728848: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847729232: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847726736: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847728464: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730000: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847729808: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730192: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847727696: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847729424: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730960: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730768: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847731152: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847728656: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730384: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847731344: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847729616: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847730576: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154847731536: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995122640: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123408: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123216: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123600: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995122448: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995122832: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995124368: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995124176: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995124560: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995122256: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123792: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995125328: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995125136: TensorSpec(shape=(), dtype=tf.resource, name=None)

2154995125520: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123024: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995124752: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995126288: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995126096: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995126480: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995123984: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995125712: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995127248: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995127056: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995127440: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995124944: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995126672: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128208: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128016: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128400: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995125904: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995127632: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995129168: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128976: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995129360: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995126864: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128592: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995130128: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995129936: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995130320: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995127824: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995129552: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995131088: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995130896: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995131280: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995128784: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995130512: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995132048: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995131856: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995132240: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995129744: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995131472: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995133584: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995133200: TensorSpec(shape=(), dtype=tf.resource, name=None)
2154995134160: TensorSpec(shape=(), dtype=tf.resource, name=None)
C:\Users\R c\anaconda3\Lib\site-packages\tensorflow\lite\python\convert.py:863:
UserWarning: Statistics for quantized inputs were expected, but not specified; continuing anyway.
warnings.warn(
Created fully quantized uint8 model
TFLite conversion successful!

Final Evaluation:

```
C:\Users\R c\anaconda3\Lib\site-packages\tensorflow\lite\python\interpreter.py:457:
UserWarning:     Warning: tf.lite.Interpreter is deprecated and is scheduled for deletion in
    TF 2.20. Please use the LiteRT interpreter from the ai_edge_litert package.
    See the [migration guide](https://ai.google.dev/edge/litert/migration)
    for details.

  warnings.warn(_INTERPRETER_DELETION_WARNING)
```

154/154 ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 72s 464ms/step - accuracy: 0.9164 - auc: 0.9733 - loss: 0.2191

Validation Accuracy: 0.9164

Validation AUC: 0.9733