

Accuracy: 1.00
Model saved as iris_model.pkl
Streamlit app code saved as app.py
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
Epoch 1/10

304/304 ————— 1s 2ms/step - loss: 0.1148 - val_loss: 0.0298

Epoch 2/10

304/304 ————— 1s 2ms/step - loss: 0.0138 - val_loss: 0.0136

Epoch 3/10

304/304 ————— 1s 2ms/step - loss: 0.0070 - val_loss: 0.0070

Epoch 4/10

304/304 ————— 2s 4ms/step - loss: 0.0037 - val_loss: 0.0044

Epoch 5/10

304/304 ————— 1s 2ms/step - loss: 0.0024 - val_loss: 0.0033

Epoch 6/10

304/304 ————— 1s 2ms/step - loss: 0.0019 - val_loss: 0.0026

Epoch 7/10

304/304 ————— 1s 2ms/step - loss: 0.0015 - val_loss: 0.0021

Epoch 8/10

304/304 ————— 1s 2ms/step - loss: 0.0013 - val_loss: 0.0018

Epoch 9/10

304/304 ————— 1s 2ms/step - loss: 0.0012 - val_loss: 0.0016

Epoch 10/10

304/304 ————— 1s 2ms/step - loss: 0.0011 - val_loss: 0.0014

15439/15439 ————— 13s 857us/step

Autoencoder Results:

[[97277 1]

[372051 24692]]

precision recall f1-score support

Normal 0.21 1.00 0.34 97278

Attack 1.00 0.06 0.12 396743

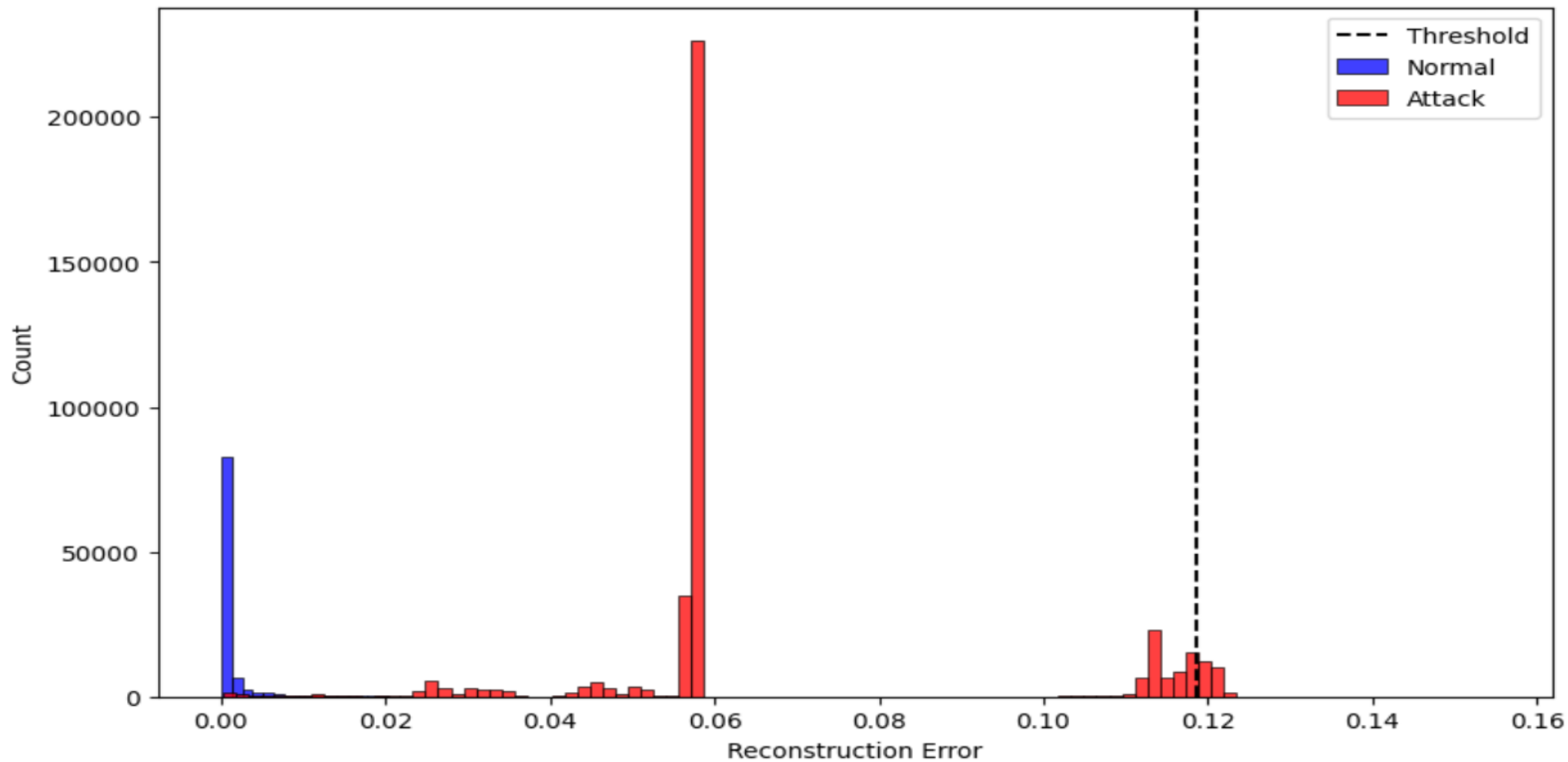
accuracy 0.25 494021

macro avg 0.60 0.53 0.23 494021

weighted avg 0.84 0.25 0.16 494021

Reconstruction Error (Autoencoder)

Reconstruction Error (Autoencoder)



◆◆◆◆ Isolation Forest Results:

[[29700 367043]

[19701 77577]]

precision recall f1-score support

Attack 0.60 0.07 0.13 396743

Normal 0.17 0.80 0.29 97278

accuracy 0.22 494021

macro avg 0.39 0.44 0.21 494021

weighted avg 0.52 0.22 0.16 494021

Reconstruction Error (Isolation Forest)

