

```
In [1]: import tensorflow as tf
gpu_devices = tf.config.experimental.list_physical_devices('GPU')
for device in gpu_devices: tf.config.experimental.set_memory_growth(device, True)
```

```
In [2]: import numpy as np
import os
import itertools
import matplotlib.pyplot as plt
import json
import seaborn as sns

%matplotlib inline
from sklearn.model_selection import train_test_split
from sklearn.metrics import confusion_matrix, classification_report
from keras.models import Sequential, load_model
from keras.layers import Dense, Flatten, Conv2D, MaxPool2D, Dropout, Activation, GL
from tensorflow.keras.optimizers import Adam
from keras.callbacks import EarlyStopping
from PIL import Image, ImageChops, ImageEnhance
from tqdm.notebook import tqdm
from tensorflow import keras
from keras.preprocessing.image import ImageDataGenerator
```

```
In [3]: def convert_to_ela_image(path, quality):

    original_image = Image.open(path).convert('RGB')

    resaved_file_name = 'resaved_image.jpg'
    original_image.save(resaved_file_name, 'JPEG', quality=quality)
    resaved_image = Image.open(resaved_file_name)

    ela_image = ImageChops.difference(original_image, resaved_image)

    extrema = ela_image.getextrema()
    max_difference = max([pix[1] for pix in extrema])
    if max_difference == 0:
        max_difference = 1
    scale = 255 / max_difference

    ela_image = ImageEnhance.Brightness(ela_image).enhance(scale)

    return ela_image
```

```
In [4]: def prepare_image(image_path):
    image_size = (128, 128)
    return np.array(convert_to_ela_image(image_path, 90).resize(image_size)).flatte
```

```
In [5]: X = []
Y = []
```

```
In [6]: path = '../Dataset/CASIA2/Au/'
for filename in tqdm(os.listdir(path), desc="Processing Images : "):
    if filename.endswith('.jpg') or filename.endswith('.png') or filename.endswith('.j
```

```

    try:
        full_path = os.path.join(path, filename)
        X.append(prepare_image(full_path))
        Y.append(1)
    except:
        pass

print(f'Total images: {len(X)}\nTotal labels: {len(Y)}')

```

```

Processing Images :   0%|          | 0/4528 [00:00<?, ?it/s]
Total images: 4514
Total labels: 4514

```

```

In [7]: path = '../Dataset/CASIA2/Tp/'
        i=0
        for filename in tqdm(os.listdir(path),desc="Processing Images : "):
            if filename.endswith('.jpg') or filename.endswith('.png') or filename.endswith('.tif'):
                i+=1
                try:
                    full_path = os.path.join(path, filename)
                    X.append(prepare_image(full_path))
                    Y.append(0)
                except:
                    pass

        print(f'Total images: {len(X)}\nTotal labels: {len(Y)}')

```

```

Processing Images :   0%|          | 0/2101 [00:00<?, ?it/s]
Total images: 5688
Total labels: 5688

```

```

In [8]: from sklearn.utils import shuffle

```

```

In [9]: X = np.array(X)
        Y = np.array(Y)
        X,Y= shuffle(X,Y)

        X = X.reshape(-1, 128, 128, 3)

        np.save('proposed_fidac_500_x.npy', X, allow_pickle=True)
        np.save('proposed_fidac_500_y.npy', Y, allow_pickle=True)

```

```

In [10]: X = np.load('proposed_fidac_500_x.npy', allow_pickle=True)
        Y = np.load('proposed_fidac_500_y.npy', allow_pickle=True)

        print(np.shape(X),np.shape(Y))

        (5688, 128, 128, 3) (5688,)

```

```

In [11]: X_temp, X_test, Y_temp, Y_test = train_test_split(X, Y, test_size = 0.05, random_state=42)
        X_train, X_val, Y_train, Y_val = train_test_split(X_temp, Y_temp, test_size = 0.2, random_state=42)
        X = X.reshape(-1,1,1,1)

        print(f'Training images: {len(X_train)} , Training labels: {len(Y_train)}')

```

```
print(f'Validation images: {len(X_val)} , Validation labels: {len(Y_val)}')
print(f'Test images: {len(X_test)} , Test labels: {len(Y_test)}')
```

```
Training images: 4322 , Training labels: 4322
Validation images: 1081 , Validation labels: 1081
Test images: 285 , Test labels: 285
```

In [12]: `print(Y_test)`

```
[1 1 1 1 1 1 1 0 1 1 1 1 1 0 1 0 0 0 1 1 1 0 1 1 1 0 1 0 1 0 1 1 1 0 1 0 1
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```

In [13]: `train_gen = ImageDataGenerator(`  
           `featurewise_center=False,`  
           `samplewise_center=False,`  
           `featurewise_std_normalization=False,`  
           `samplewise_std_normalization=False,`  
           `#zca_whitening=False,`  
           `rotation_range=30,`  
           `width_shift_range=0.1,`  
           `height_shift_range=0.1,`  
           `zoom_range=0.2,`  
           `horizontal_flip=True,`  
           `vertical_flip=False,`  
           `)`  
           `test_gen = ImageDataGenerator()`  
  
           `train_gen.fit(X_train)`  
           `test_gen.fit(X_val)`  
  
           `augmented_data = []`

In [14]: `def build_model():`  
           `model = Sequential()`  
           `model.add(Conv2D(32, (5,5), activation = 'relu', input_shape = (128, 128, 3)))`  
           `model.add(MaxPool2D(2, 2))`  
           `model.add(Conv2D(64, (3,3), activation = 'relu'))`  
           `model.add(MaxPool2D(2, 2))`  
           `model.add(Conv2D(128, (3,3), activation = 'relu'))`  
           `model.add(Conv2D(128, (3,3), activation = 'relu'))`  
           `model.add(MaxPool2D(2, 2))`  
           `model.add(Conv2D(256, (3,3), activation = 'relu'))`  
           `model.add(Conv2D(256, (3,3), activation = 'relu', padding = "SAME"))`  
           `model.add(Flatten())`  
           `model.add(Dense(64, activation = 'relu'))`  
           `model.add(Dropout(0.4))`  
           `model.add(Dense(128, activation = 'relu'))`  
           `model.add(Dropout(0.4))`  
           `model.add(Dense(1, activation = 'sigmoid'))`  
           `return model`

```
In [15]: model = build_model()
model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
=====		
conv2d (Conv2D)	(None, 124, 124, 32)	2432
max_pooling2d (MaxPooling2D)	(None, 62, 62, 32)	0
conv2d_1 (Conv2D)	(None, 60, 60, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 128)	73856
conv2d_3 (Conv2D)	(None, 26, 26, 128)	147584
max_pooling2d_2 (MaxPooling2D)	(None, 13, 13, 128)	0
conv2d_4 (Conv2D)	(None, 11, 11, 256)	295168
conv2d_5 (Conv2D)	(None, 11, 11, 256)	590080
flatten (Flatten)	(None, 30976)	0
dense (Dense)	(None, 64)	1982528
dropout (Dropout)	(None, 64)	0
dense_1 (Dense)	(None, 128)	8320
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
=====		
Total params: 3,118,593		
Trainable params: 3,118,593		
Non-trainable params: 0		

```
In [16]: epochs = 50
batch_size = 19
```

```
In [17]: init_lr = 1e-4
optimizer = tf.keras.optimizers.legacy.Adam(learning_rate=init_lr, decay=init_lr/ep
model.compile(optimizer = optimizer, loss = 'binary_crossentropy', metrics = ['accu
```

```
In [18]: early_stopping = EarlyStopping(monitor = 'val_accuracy',
min_delta = 0,
patience = 10,
```

```
verbose = 0,  
mode = 'auto')
```

```
hist = model.fit(train_gen.flow(X_train, Y_train, batch_size=19),
                 batch_size = batch_size,
                 epochs = epochs,
                 #steps_per_epoch = 14,
                 validation_data = train_gen.flow(X_train, Y_train, batch_size=19))
                 #callbacks = [early_stopping])
```

Epoch 1/50  
228/228 [=====] - 68s 296ms/step - loss: 0.3661 - accuracy: 0.8114 - val\_loss: 0.2757 - val\_accuracy: 0.8700  
Epoch 2/50  
228/228 [=====] - 71s 310ms/step - loss: 0.2914 - accuracy: 0.8593 - val\_loss: 0.2910 - val\_accuracy: 0.8635  
Epoch 3/50  
228/228 [=====] - 69s 301ms/step - loss: 0.2822 - accuracy: 0.8674 - val\_loss: 0.2657 - val\_accuracy: 0.8598  
Epoch 4/50  
228/228 [=====] - 69s 305ms/step - loss: 0.2735 - accuracy: 0.8725 - val\_loss: 0.2435 - val\_accuracy: 0.8843  
Epoch 5/50  
228/228 [=====] - 69s 303ms/step - loss: 0.2684 - accuracy: 0.8795 - val\_loss: 0.2416 - val\_accuracy: 0.8834  
Epoch 6/50  
228/228 [=====] - 69s 302ms/step - loss: 0.2600 - accuracy: 0.8762 - val\_loss: 0.2388 - val\_accuracy: 0.8852  
Epoch 7/50  
228/228 [=====] - 69s 301ms/step - loss: 0.2595 - accuracy: 0.8795 - val\_loss: 0.2420 - val\_accuracy: 0.8832  
Epoch 8/50  
228/228 [=====] - 71s 312ms/step - loss: 0.2516 - accuracy: 0.8832 - val\_loss: 0.2372 - val\_accuracy: 0.8878  
Epoch 9/50  
228/228 [=====] - 69s 305ms/step - loss: 0.2543 - accuracy: 0.8813 - val\_loss: 0.2361 - val\_accuracy: 0.8848  
Epoch 10/50  
228/228 [=====] - 70s 305ms/step - loss: 0.2466 - accuracy: 0.8820 - val\_loss: 0.2575 - val\_accuracy: 0.8732  
Epoch 11/50  
228/228 [=====] - 69s 303ms/step - loss: 0.2512 - accuracy: 0.8850 - val\_loss: 0.2272 - val\_accuracy: 0.8929  
Epoch 12/50  
228/228 [=====] - 68s 301ms/step - loss: 0.2438 - accuracy: 0.8866 - val\_loss: 0.2276 - val\_accuracy: 0.8903  
Epoch 13/50  
228/228 [=====] - 67s 296ms/step - loss: 0.2420 - accuracy: 0.8880 - val\_loss: 0.2363 - val\_accuracy: 0.8901  
Epoch 14/50  
228/228 [=====] - 68s 298ms/step - loss: 0.2399 - accuracy: 0.8894 - val\_loss: 0.2359 - val\_accuracy: 0.8882  
Epoch 15/50  
228/228 [=====] - 71s 309ms/step - loss: 0.2310 - accuracy: 0.8952 - val\_loss: 0.2147 - val\_accuracy: 0.8963  
Epoch 16/50  
228/228 [=====] - 67s 296ms/step - loss: 0.2293 - accuracy: 0.9017 - val\_loss: 0.2071 - val\_accuracy: 0.9044  
Epoch 17/50  
228/228 [=====] - 67s 296ms/step - loss: 0.2241 - accuracy: 0.8975 - val\_loss: 0.2066 - val\_accuracy: 0.9088  
Epoch 18/50  
228/228 [=====] - 68s 298ms/step - loss: 0.2163 - accuracy: 0.9068 - val\_loss: 0.2016 - val\_accuracy: 0.9107  
Epoch 19/50  
228/228 [=====] - 70s 309ms/step - loss: 0.2177 - accuracy:

y: 0.9033 - val\_loss: 0.2064 - val\_accuracy: 0.9112  
Epoch 20/50  
228/228 [=====] - 68s 297ms/step - loss: 0.2156 - accurac  
y: 0.9058 - val\_loss: 0.1992 - val\_accuracy: 0.9137  
Epoch 21/50  
228/228 [=====] - 67s 296ms/step - loss: 0.2132 - accurac  
y: 0.9049 - val\_loss: 0.1948 - val\_accuracy: 0.9081  
Epoch 22/50  
228/228 [=====] - 67s 295ms/step - loss: 0.2146 - accurac  
y: 0.9035 - val\_loss: 0.1941 - val\_accuracy: 0.9142  
Epoch 23/50  
228/228 [=====] - 67s 296ms/step - loss: 0.2084 - accurac  
y: 0.9051 - val\_loss: 0.1962 - val\_accuracy: 0.9135  
Epoch 24/50  
228/228 [=====] - 69s 304ms/step - loss: 0.2086 - accurac  
y: 0.9075 - val\_loss: 0.1870 - val\_accuracy: 0.9155  
Epoch 25/50  
228/228 [=====] - 68s 297ms/step - loss: 0.2064 - accurac  
y: 0.9130 - val\_loss: 0.1947 - val\_accuracy: 0.9144  
Epoch 26/50  
228/228 [=====] - 68s 298ms/step - loss: 0.2017 - accurac  
y: 0.9095 - val\_loss: 0.1844 - val\_accuracy: 0.9167  
Epoch 27/50  
228/228 [=====] - 67s 295ms/step - loss: 0.2023 - accurac  
y: 0.9107 - val\_loss: 0.1851 - val\_accuracy: 0.9199  
Epoch 28/50  
228/228 [=====] - 67s 295ms/step - loss: 0.1981 - accurac  
y: 0.9086 - val\_loss: 0.2023 - val\_accuracy: 0.9091  
Epoch 29/50  
228/228 [=====] - 67s 294ms/step - loss: 0.1973 - accurac  
y: 0.9102 - val\_loss: 0.2026 - val\_accuracy: 0.9105  
Epoch 30/50  
228/228 [=====] - 68s 297ms/step - loss: 0.1916 - accurac  
y: 0.9149 - val\_loss: 0.1889 - val\_accuracy: 0.9234  
Epoch 31/50  
228/228 [=====] - 69s 303ms/step - loss: 0.1936 - accurac  
y: 0.9142 - val\_loss: 0.2539 - val\_accuracy: 0.8845  
Epoch 32/50  
228/228 [=====] - 68s 296ms/step - loss: 0.1896 - accurac  
y: 0.9135 - val\_loss: 0.1827 - val\_accuracy: 0.9190  
Epoch 33/50  
228/228 [=====] - 68s 299ms/step - loss: 0.1870 - accurac  
y: 0.9169 - val\_loss: 0.1740 - val\_accuracy: 0.9255  
Epoch 34/50  
228/228 [=====] - 67s 295ms/step - loss: 0.1841 - accurac  
y: 0.9188 - val\_loss: 0.1868 - val\_accuracy: 0.9276  
Epoch 35/50  
228/228 [=====] - 68s 299ms/step - loss: 0.1873 - accurac  
y: 0.9169 - val\_loss: 0.1876 - val\_accuracy: 0.9112  
Epoch 36/50  
228/228 [=====] - 68s 296ms/step - loss: 0.1734 - accurac  
y: 0.9283 - val\_loss: 0.1654 - val\_accuracy: 0.9327  
Epoch 37/50  
228/228 [=====] - 69s 301ms/step - loss: 0.1777 - accurac  
y: 0.9257 - val\_loss: 0.1595 - val\_accuracy: 0.9294  
Epoch 38/50

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228/228 [=====] - 68s 299ms/step - loss: 0.1741 - accurac
y: 0.9250 - val_loss: 0.1678 - val_accuracy: 0.9278
Epoch 39/50
228/228 [=====] - 67s 296ms/step - loss: 0.1814 - accurac
y: 0.9230 - val_loss: 0.1545 - val_accuracy: 0.9311
Epoch 40/50
228/228 [=====] - 67s 296ms/step - loss: 0.1777 - accurac
y: 0.9250 - val_loss: 0.1554 - val_accuracy: 0.9315
Epoch 41/50
228/228 [=====] - 68s 297ms/step - loss: 0.1643 - accurac
y: 0.9276 - val_loss: 0.1754 - val_accuracy: 0.9206
Epoch 42/50
228/228 [=====] - 69s 301ms/step - loss: 0.1679 - accurac
y: 0.9290 - val_loss: 0.1733 - val_accuracy: 0.9220
Epoch 43/50
228/228 [=====] - 70s 309ms/step - loss: 0.1621 - accurac
y: 0.9304 - val_loss: 0.1478 - val_accuracy: 0.9348
Epoch 44/50
228/228 [=====] - 67s 294ms/step - loss: 0.1679 - accurac
y: 0.9262 - val_loss: 0.1448 - val_accuracy: 0.9373
Epoch 45/50
228/228 [=====] - 67s 295ms/step - loss: 0.1510 - accurac
y: 0.9359 - val_loss: 0.1716 - val_accuracy: 0.9149
Epoch 46/50
228/228 [=====] - 67s 294ms/step - loss: 0.1657 - accurac
y: 0.9273 - val_loss: 0.1611 - val_accuracy: 0.9306
Epoch 47/50
228/228 [=====] - 67s 293ms/step - loss: 0.1617 - accurac
y: 0.9294 - val_loss: 0.1376 - val_accuracy: 0.9445
Epoch 48/50
228/228 [=====] - 68s 297ms/step - loss: 0.1606 - accurac
y: 0.9327 - val_loss: 0.1344 - val_accuracy: 0.9394
Epoch 49/50
228/228 [=====] - 69s 302ms/step - loss: 0.1594 - accurac
y: 0.9359 - val_loss: 0.1401 - val_accuracy: 0.9417
Epoch 50/50
228/228 [=====] - 70s 309ms/step - loss: 0.1473 - accurac
y: 0.9361 - val_loss: 0.1406 - val_accuracy: 0.9387

```

```

In [20]: model.save('ela_casia.h5')

history_dict = hist.history
json.dump(history_dict, open('model_history', 'w'))

```

```

In [21]: fig, ax = plt.subplots(1,2,figsize=(15,5))

ax[0].plot(history_dict['loss'], color='b', label = "Training loss")
ax[0].plot(history_dict['val_loss'], color='r', label = "Validation loss", axes =ax[
ax[0].set_xlabel('Epochs',fontsize=16)
ax[0].set_ylabel('Loss',fontsize=16)
legend = ax[0].legend(loc='best', shadow=True)

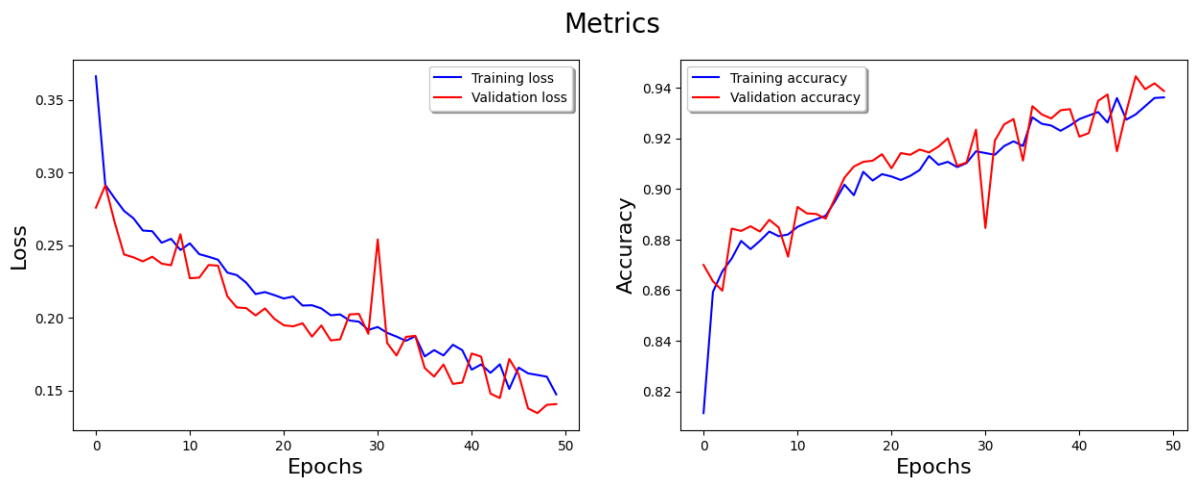
ax[1].plot(history_dict['accuracy'], color='b', label = "Training accuracy")
ax[1].plot(history_dict['val_accuracy'], color='r',label = "Validation accuracy")
ax[1].set_xlabel('Epochs',fontsize=16)
ax[1].set_ylabel('Accuracy',fontsize=16)

```



```
legend = ax[1].legend(loc='best', shadow=True)
```

```
fig.suptitle('Metrics', fontsize=20);
```



```
In [22]: def plot_confusion_matrix(cf_matrix):

    group_counts = ["{0:0.0f}".format(value) for value in cf_matrix.flatten()]
    group_percentages = ["{0:.2%}".format(value) for value in cf_matrix.flatten()/n

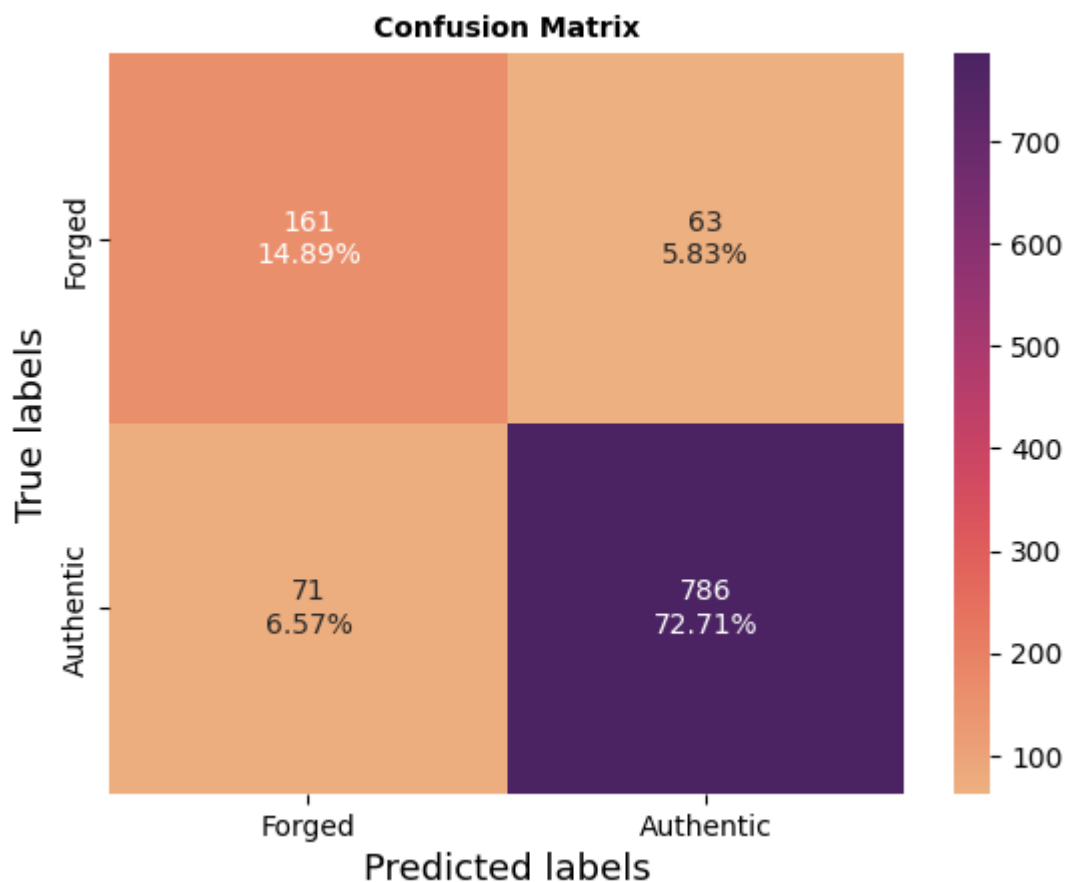
    axes_labels=['Forged', 'Authentic']
    labels = [f"{v1}\n{v2}" for v1, v2 in zip(group_counts,group_percentages)]
    labels = np.asarray(labels).reshape(2,2)
    sns.heatmap(cf_matrix, annot=labels, fmt='', cmap="flare" , xticklabels=axes_labels,

    plot_xlabel = plt.xlabel('Predicted labels', fontsize = 13)
    plot_ylabel = plt.ylabel('True labels', fontsize = 13)
    plot_title = plt.title('Confusion Matrix', fontsize= 10,fontweight='bold')
```

```
In [23]: Y_pred = model.predict(X_val)
Y_pred_classes = np.round(Y_pred)
Y_true = Y_val

confusion_mtx = confusion_matrix(Y_true, Y_pred_classes)
plot_confusion_matrix(confusion_mtx)
```

34/34 [=====] - 3s 76ms/step



```
In [24]: print(classification_report(Y_true, Y_pred_classes))
```

	precision	recall	f1-score	support
0	0.69	0.72	0.71	224
1	0.93	0.92	0.92	857
accuracy			0.88	1081
macro avg	0.81	0.82	0.81	1081
weighted avg	0.88	0.88	0.88	1081

```
In [25]: class_names = ['Forged', 'Authentic']
```

```
In [26]: correct_test = 0
total_test = 0

for index, image in enumerate(tqdm(X_test, desc="Processing Images : ")):
    image = image.reshape(-1, 128, 128, 3)
    y_pred = model.predict(image)
    y_pred_class = np.round(y_pred)
    total_test += 1
    if y_pred_class == Y_test[index]:
        correct_test += 1

print(f'Total test images: {total_test}\nCorrectly predicted images: {correct_test}')

Processing Images : 0% | 0/285 [00:00<?, ?it/s]
```

[illegible]

1/1 [=====] - 0s 16ms/step  
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Total test images: 285
Correctly predicted images: 255
Accuracy: 89.47368421052632 %
```

```
In [27]: from PIL import ImageFile
```

```
ImageFile.LOAD_TRUNCATED_IMAGES = True
```

```
In [28]: fake_image = '../Dataset/CASIA2/Tp/'
correct = 0
total = 0
for file_name in os.listdir(fake_image):
    if file_name.endswith('.jpg') or file_name.endswith('.png'):
        test_image_path = os.path.join(fake_image, file_name)
        test_image = prepare_image(test_image_path)
        test_image=test_image.reshape(-1, 128, 128, 3)
        y_pred = model.predict(test_image)
        y_pred_class = round(y_pred[0][0])
        total += 1
        if y_pred_class == 0:
            correct += 1
            print(f'Class: {class_names[y_pred_class]} Confidence: {np.amax(y_pred)}')
print(f'Total: {total}, Correct: {correct}, Acc: {correct / total * 100.0}')
```



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Class: Forged Confidence: 15.95  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 12.01  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 29.81  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 6.56  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 15.37  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 19.46  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 18.17  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 14.89  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 13.16  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 14.97  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 18.18  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.80  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 3.02  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.56  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 13.30  
1/1 [=====] - 0s 15ms/step  
Class: Forged Confidence: 11.51  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 13.34  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 13.23  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 22.68  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 25.67  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 30.16  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 24.89  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 11.31  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 19.48  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 13.15  
1/1 [=====] - 0s 17ms/step

Class: Forged Confidence: 29.33  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 27.48  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 18.60  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 3.75  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 11.86  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 3.10  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.59  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 4.26  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 3.48  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.82  
1/1 [=====] - 0s 15ms/step  
Class: Forged Confidence: 3.73  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 1.95  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 4.81  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 3.03  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 2.44  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 1.74  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.47  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.07  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 2.14  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.50  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 22.26  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 11.16  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 9.63  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 11.15  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 4.46  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 7.18  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 9.46  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 8.13

1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 7.18  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 11.08  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 5.48  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 6.60  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 2.53  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 3.86  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.52  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 3.93  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 2.99  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 48.02  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 29.44  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.55  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 7.25  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 9.23  
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Class: Forged Confidence: 7.85  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 32.79  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 44.80  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 35.18  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 24.98  
1/1 [=====] - 0s 15ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 42.95  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 37.91  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 47.58  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 7.89  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 32.83  
1/1 [=====] - 0s 17ms/step



1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 33.02  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 8.04  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 36.44  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 26.30  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 27.89  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 27.90  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 27.84  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 26.43  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 27.26  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 9.08  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 13.20  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 15.74  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 38.11  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 24.62  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 42.11  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 47.08  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 47.84  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 42.06  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.60  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 10.89  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 10.28  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 32.56  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 32.42  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 23.95  
1/1 [=====] - 0s 17ms/step

Class: Forged Confidence: 20.81  
1/1 [=====] - 0s 18ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 28.88  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 17.11  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 10.47  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 16.55  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 13.53  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 15.48  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 4.23  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 10.18  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 25.30  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 23.12  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 17.62  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 6.57  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 16.86  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 15.45  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 3.44  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 4.50  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 3.64  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 32.30  
1/1 [=====] - 0s 18ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 2.87  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 6.97  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 11.25  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 38.21  
1/1 [=====] - 0s 17ms/step

Class: Forged Confidence: 40.79  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 25.99  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 17.27  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 23.91  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 19.03  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 36.68  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 45.54  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 39.06  
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1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 15.86  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 41.61  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 33.79  
1/1 [=====] - 0s 17ms/step  
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1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 19ms/step  
1/1 [=====] - 0s 19ms/step  
Class: Forged Confidence: 16.21  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 18.63  
1/1 [=====] - 0s 18ms/step  
Class: Forged Confidence: 31.22  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 27.90  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 16.74  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 16.82  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 35.42  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 21.35  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 18ms/step

Class: Forged Confidence: 43.85  
1/1 [=====] - 0s 19ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 49.25  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 19.54  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 6.62  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 13.96  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 40.87  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 15ms/step  
Class: Forged Confidence: 42.17  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 24.53  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 17.93  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 42.84  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 12.48  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 20.83  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 27.40  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 20.77  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 17.26  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 26.30  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 17.65  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Forged Confidence: 12.86  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 28.28  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 5.45  
1/1 [=====] - 0s 16ms/step  
1/1 [=====] - 0s 16ms/step  
Class: Forged Confidence: 14.13  
Total: 1174, Correct: 840, Acc: 71.55025553662692

```
In [29]: real_image = '../Dataset/CASIA2/Au/'
correct_r = 0
total_r = 0
for file_name in os.listdir(real_image):
    if file_name.endswith('.jpg') or file_name.endswith('.png'):
        test_image_path = os.path.join(real_image, file_name)
        test_image = prepare_image(test_image_path)
        test_image=test_image.reshape(-1, 128, 128, 3)
        y_pred = model.predict(test_image)
        y_pred_class = round(y_pred[0][0])
        total_r += 1
        if y_pred_class == 1:
            correct_r += 1
            print(f'Class: {class_names[y_pred_class]} Confidence: {np.amax(y_pred)}')
print(f'Total: {total_r}, Correct: {correct_r}, Acc: {correct_r / total_r * 100.0}')
```

1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 15ms/step  
Class: Authentic Confidence: 96.99  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.99  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.98  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.97

1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.40  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 98.59  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 97.23  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.93  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.62  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.74  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.98  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00

1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.72  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.96  
1/1 [=====] - 0s 17ms/step  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 98.40  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.24  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.85  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.95  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.96  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.86  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.55  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.98  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 96.45  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.43  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.99  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.89  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.81  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 98.01  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.99  
1/1 [=====] - 0s 16ms/step  
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Class: Authentic Confidence: 98.92  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.23  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.08  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.64  
1/1 [=====] - 0s 15ms/step  
Class: Authentic Confidence: 99.78  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 94.99  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 96.62  
1/1 [=====] - 0s 16ms/step



Class: Authentic Confidence: 99.89  
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Class: Authentic Confidence: 98.85  
1/1 [=====] - 0s 15ms/step  
Class: Authentic Confidence: 99.44  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.50  
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Class: Authentic Confidence: 98.78  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.94  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.82  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 89.30  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.98  
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Class: Authentic Confidence: 97.81  
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Class: Authentic Confidence: 98.90  
1/1 [=====] - 0s 16ms/step  
Class: Authentic Confidence: 99.82  
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Class: Authentic Confidence: 99.50  
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Class: Authentic Confidence: 97.93  
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Class: Authentic Confidence: 99.91  
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Class: Authentic Confidence: 92.48  
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1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 79.66  
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Class: Authentic Confidence: 96.98  
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Class: Authentic Confidence: 99.93  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 96.53  
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Class: Authentic Confidence: 98.67  
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Class: Authentic Confidence: 98.96  
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Class: Authentic Confidence: 92.67  
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Class: Authentic Confidence: 97.72  
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Class: Authentic Confidence: 96.50  
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Class: Authentic Confidence: 60.47  
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Class: Authentic Confidence: 79.99  
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Class: Authentic Confidence: 76.64  
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Class: Authentic Confidence: 99.56  
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Class: Authentic Confidence: 94.51  
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Class: Authentic Confidence: 93.71  
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Class: Authentic Confidence: 91.01  
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Class: Authentic Confidence: 73.51  
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Class: Authentic Confidence: 94.83  
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Class: Authentic Confidence: 99.04

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Class: Authentic Confidence: 99.70  
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Class: Authentic Confidence: 83.91  
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Class: Authentic Confidence: 64.07  
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Class: Authentic Confidence: 78.54  
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Class: Authentic Confidence: 89.58  
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Class: Authentic Confidence: 98.11  
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Class: Authentic Confidence: 73.68  
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Class: Authentic Confidence: 99.68  
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Class: Authentic Confidence: 74.07  
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Class: Authentic Confidence: 84.16  
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Class: Authentic Confidence: 87.22  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 67.72  
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Class: Authentic Confidence: 84.50  
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Class: Authentic Confidence: 89.35



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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 83.43  
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Class: Authentic Confidence: 99.98  
1/1 [=====] - 0s 19ms/step  
Class: Authentic Confidence: 94.78  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
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Class: Authentic Confidence: 95.32  
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Class: Authentic Confidence: 96.17  
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Class: Authentic Confidence: 99.28  
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Class: Authentic Confidence: 98.53  
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1/1 [=====] - 0s 18ms/step  
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1/1 [=====] - 0s 17ms/step

Class: Authentic Confidence: 99.91  
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Class: Authentic Confidence: 100.00

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Class: Authentic Confidence: 80.79  
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Class: Authentic Confidence: 55.16  
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Class: Authentic Confidence: 94.74  
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Class: Authentic Confidence: 93.62  
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Class: Authentic Confidence: 78.39  
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Class: Authentic Confidence: 54.27

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Class: Authentic Confidence: 80.95  
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Class: Authentic Confidence: 94.47  
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Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.99
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.99
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.99
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.96
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.99
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 99.58
1/1 [=====] - 0s 19ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 19ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 19ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00

```

[illegible]

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1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 20ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
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Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 98.70
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 99.66
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 17ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
```

1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.96  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 19ms/step  
Class: Authentic Confidence: 97.69  
1/1 [=====] - 0s 19ms/step  
Class: Authentic Confidence: 99.43  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 99.85  
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Class: Authentic Confidence: 99.17  
1/1 [=====] - 0s 19ms/step  
Class: Authentic Confidence: 99.70  
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Class: Authentic Confidence: 99.01  
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Class: Authentic Confidence: 98.01  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 97.58  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 99.97  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 99.96  
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Class: Authentic Confidence: 99.49  
1/1 [=====] - 0s 18ms/step  
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Class: Authentic Confidence: 99.41  
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Class: Authentic Confidence: 100.00  
1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.21



1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 99.31  
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Class: Authentic Confidence: 97.07  
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Class: Authentic Confidence: 98.76  
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Class: Authentic Confidence: 99.65  
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Class: Authentic Confidence: 81.59  
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Class: Authentic Confidence: 93.76  
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Class: Authentic Confidence: 94.25  
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Class: Authentic Confidence: 99.10

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Class: Authentic Confidence: 99.11  
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Class: Authentic Confidence: 99.95  
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Class: Authentic Confidence: 99.68  
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Class: Authentic Confidence: 99.77  
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Class: Authentic Confidence: 99.85

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Class: Authentic Confidence: 78.26  
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Class: Authentic Confidence: 99.25  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 90.64  
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Class: Authentic Confidence: 99.73  
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Class: Authentic Confidence: 99.78  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 98.08  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 94.06  
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Class: Authentic Confidence: 96.86  
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Class: Authentic Confidence: 99.93  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 86.87  
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Class: Authentic Confidence: 99.97  
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Class: Authentic Confidence: 98.32  
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Class: Authentic Confidence: 100.00  
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1/1 [=====] - 0s 18ms/step  
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Class: Authentic Confidence: 71.97

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Class: Authentic Confidence: 66.01  
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Class: Authentic Confidence: 67.53  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 97.05  
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1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 62.51  
1/1 [=====] - 0s 18ms/step  
1/1 [=====] - 0s 18ms/step  
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Class: Authentic Confidence: 90.80  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 91.12  
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Class: Authentic Confidence: 77.27  
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Class: Authentic Confidence: 89.75  
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1/1 [=====] - 0s 17ms/step  
Class: Authentic Confidence: 99.06  
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Class: Authentic Confidence: 94.44  
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Class: Authentic Confidence: 89.05  
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Class: Authentic Confidence: 93.47  
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Class: Authentic Confidence: 97.97  
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Class: Authentic Confidence: 99.96  
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Class: Authentic Confidence: 97.30  
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Class: Authentic Confidence: 96.39  
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Class: Authentic Confidence: 99.65  
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Class: Authentic Confidence: 95.46  
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Class: Authentic Confidence: 99.62  
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Class: Authentic Confidence: 97.75  
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Class: Authentic Confidence: 60.68  
1/1 [=====] - 0s 17ms/step

Class: Authentic Confidence: 77.07  
1/1 [=====] - 0s 18ms/step  
Class: Authentic Confidence: 65.76  
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Class: Authentic Confidence: 77.77  
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Class: Authentic Confidence: 57.01  
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Class: Authentic Confidence: 95.41  
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Class: Authentic Confidence: 80.67  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 99.23  
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Class: Authentic Confidence: 91.03  
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Class: Authentic Confidence: 81.32  
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Class: Authentic Confidence: 56.27  
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Class: Authentic Confidence: 93.84  
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Class: Authentic Confidence: 75.52  
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Class: Authentic Confidence: 62.51  
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Class: Authentic Confidence: 90.80  
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Class: Authentic Confidence: 91.12  
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Class: Authentic Confidence: 77.27  
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Class: Authentic Confidence: 89.75  
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Class: Authentic Confidence: 99.06  
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Class: Authentic Confidence: 94.44  
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Class: Authentic Confidence: 89.05  
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Class: Authentic Confidence: 97.97  
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Class: Authentic Confidence: 99.96  
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1/1 [=====] - 0s 18ms/step

Class: Authentic Confidence: 75.52  
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Class: Authentic Confidence: 97.30  
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Class: Authentic Confidence: 99.65  
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Class: Authentic Confidence: 77.07  
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Class: Authentic Confidence: 81.32  
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Class: Authentic Confidence: 57.01  
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Class: Authentic Confidence: 95.41  
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Class: Authentic Confidence: 80.67  
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1/1 [=====] - 0s 19ms/step  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 99.76  
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Class: Authentic Confidence: 98.40  
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Class: Authentic Confidence: 99.02  
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Class: Authentic Confidence: 99.96  
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Class: Authentic Confidence: 98.74  
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Class: Authentic Confidence: 98.30  
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Class: Authentic Confidence: 99.99  
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Class: Authentic Confidence: 99.99  
1/1 [=====] - 0s 17ms/step

Class: Authentic Confidence: 99.67  
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Class: Authentic Confidence: 100.00  
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Class: Authentic Confidence: 99.97  
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Class: Authentic Confidence: 99.17  
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Class: Authentic Confidence: 99.62  
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1/1 [=====] - 0s 18ms/step

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Class: Authentic Confidence: 99.99
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Class: Authentic Confidence: 100.00
1/1 [=====] - 0s 18ms/step
Class: Authentic Confidence: 91.16
Total: 4514, Correct: 4172, Acc: 92.4235711120957
```

```
In [30]: correct += correct_r
total += total_r
#print(f'Total: {total_r}, Correct: {correct_r}, Acc: {correct_r / total_r * 100.0}')
print(f'Total: {total}, Correct: {correct}, Acc: {correct / total * 100.0}')
```

Total: 5688, Correct: 5012, Acc: 88.11533052039381

```
In [36]: test_image_path = './1.JPG'    # test image path
test_image = prepare_image(test_image_path)
test_image = test_image.reshape(-1, 128, 128, 3)

y_pred = model.predict(test_image)
y_pred_class = int(round(y_pred[0][0]))

fig, ax = plt.subplots(1,2,figsize=(15,5))

original_image = plt.imread(test_image_path)
ax[0].axis('off')
ax[0].imshow(original_image)
ax[0].set_title('Original Image')

ax[1].axis('off')
ax[1].imshow(convert_to_ela_image(test_image_path,90))
ax[1].set_title('ELA Image')

print(f'Prediction: {class_names[y_pred_class]}')
if y_pred<=0.5:
    print(f'Confidence: {(1-(y_pred[0][0])) * 100:0.2f}%')
else:
    print(f'Confidence: {(y_pred[0][0]) * 100:0.2f}%')
print('-----')

1/1 [=====] - 0s 18ms/step
Prediction: Forged
Confidence: 82.47%
-----
-----
```

Original Image



ELA Image



In [32]: