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# This Python 3 environment comes with many helpful analytics
libraries installed
# It is defined by the kaggle/python Docker image:
https://github.com/kaggle/docker-python
# For example, here's several helpful packages to load
import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read csv)
import matplotlib.pyplot as plt
from sklearn.metrics import classification report, accuracy score
from tensorflow.keras.preprocessing.image import ImageDataGenerator,
load img, img to array
from tensorflow.keras.applications.vgg16 import VGG16,
preprocess input
from tensorflow.keras import layers, models
from tensorflow.keras.utils import to categorical
# Input data files are available in the read-only "../input/"
directory
# For example, running this (by clicking run or pressing Shift+Enter)
will list all files under the input directory
import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))
# You can write up to 20GB to the current directory (/kaggle/working/)
that gets preserved as output when you create a version using "Save &
Run All"
# You can also write temporary files to /kaggle/temp/, but they won't
be saved outside of the current session
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/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 143.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr_209.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 131.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
```

```
Data/train/Crazing/Cr 265.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 38.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 180.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 161.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 99.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 160.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 159.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 39.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 70.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 4.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 155.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 135.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 65.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 198.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 219.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 141.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 178.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 144.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 204.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 199.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 80.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 246.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 148.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 249.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 295.bmp
```

```
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 274.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 191.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 167.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 299.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 27.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 82.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 197.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 216.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 236.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 291.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 53.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 218.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 177.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 206.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 165.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr_297.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 205.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 267.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 76.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 124.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 37.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 235.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 154.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 63.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
```

```
Data/train/Crazing/Cr 250.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 272.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 85.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 186.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 97.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 89.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 226.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 25.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 48.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 29.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 78.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 28.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 181.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 81.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 174.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 172.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 132.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 230.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 188.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 271.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 292.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 87.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 296.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 213.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 138.bmp
```

```
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 54.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 192.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 168.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 24.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 261.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 68.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 253.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 55.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 183.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 152.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 259.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 7.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 16.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 46.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 243.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 241.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 57.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 14.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 133.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 196.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 150.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 277.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr_231.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 9.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
```

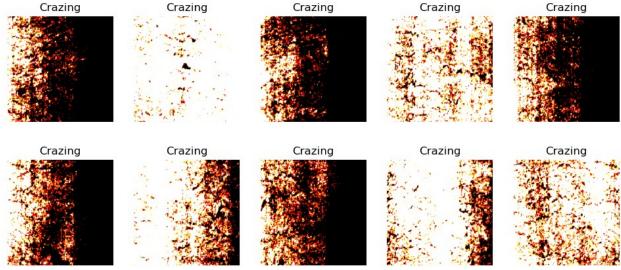
```
Data/train/Crazing/Cr 244.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 151.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 221.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 42.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 67.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 18.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 125.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 71.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 224.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 2.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 156.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 13.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 6.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 142.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 91.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 95.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 153.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 281.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 223.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 69.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 276.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 147.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 203.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 61.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 74.bmp
```

```
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 30.bmp
# Set the path to the root directory of your dataset
train data dir = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/train'
test_data_dir = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/test'
valid data dir = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/valid'
# Define the image size for resizing (VGG16 requires input size of
224x224)
image size = (224, 224)
# Batch size for training
batch size = 32
# Function to preprocess a single image
def preprocess image(image path):
    img = load img(image path, target size=image size) # Load image
and resize
    img array = img to array(img) # Convert image to NumPy array
    img_array = img_array.reshape((1,) + img_array.shape) # Reshape
to (1, width, height, channels)
    img_array = preprocess_input(img array) # Preprocess the image
according to VGG16 requirements
    return img array
# Function to preprocess an entire dataset
def preprocess dataset(data dir):
    image list = []
    labels = []
    class_names = sorted(os.listdir(data dir))
    for class index, class name in enumerate(class names):
        class dir = os.path.join(data dir, class name)
        for image file in os.listdir(class dir):
            image path = os.path.join(class dir, image file)
            img array = preprocess image(image path)
            image list.append(img array)
            labels.append(class index)
    # Convert image list and labels to NumPy arrays
    images = np.concatenate(image list, axis=0)
    labels = np.array(labels)
    return images, labels
# Preprocess training data
train images, train labels = preprocess dataset(train data dir)
```

```
# Preprocess validation data
valid images, valid labels = preprocess dataset(valid data dir)
# Preprocess testing data
test images, test labels = preprocess dataset(test data dir)
# Create an ImageDataGenerator for data augmentation and preprocessing
train datagen = ImageDataGenerator(
    rotation range=20,
    width shift range=0.2,
    height_shift_range=0.2,
    shear_range=0.2,
    zoom range=0.2,
    horizontal flip=True,
    rescale=1.0 / 255
)
# Create ImageDataGenerators for validation and testing (only
rescaling, no augmentation)
valid datagen = ImageDataGenerator(rescale=1.0 / 255)
test datagen = ImageDataGenerator(rescale=1.0 / 255)
# Define the number of classes in your dataset
num classes = len(os.listdir(train data dir))
print(num classes)
# Load the pre-trained VGG16 model
vgg16 model = VGG16(weights='imagenet', include top=False,
input shape=(224, 224, 3))
# Freeze the layers of the pre-trained VGG16 model
for layer in vgg16 model.layers:
    layer.trainable = False
# Create your own classification layers
model = models.Sequential()
model.add(vgg16 model)
model.add(layers.Flatten())
model.add(layers.Dense(256, activation='relu'))
model.add(layers.Dropout(0.5))
# Replace num classes with the number of classes in your dataset
model.add(layers.Dense(num classes, activation='softmax'))
# Compile the model
model.compile(optimizer='adam', loss='categorical crossentropy',
metrics=['accuracy'])
```

```
# Convert the labels to integers if they are not already
train labels = np.array(train labels, dtype='int32')
valid labels = np.array(valid labels, dtype='int32')
test labels = np.array(test labels, dtype='int32')
# Assuming train labels, valid labels, and test labels are integer
labels
train labels = to categorical(train labels, num classes)
valid labels = to categorical(valid labels, num classes)
test_labels = to_categorical(test_labels, num_classes)
# Function to convert labels to class names
def get class name(label):
    class names = sorted(os.listdir(train data dir))
    return class names[label]
# Visualize some images from the dataset
def visualize images(images, labels, num samples=5):
    plt.figure(figsize=(12, 8))
    for i in range(num samples):
        plt.subplot(1, num samples, i + 1)
        plt.imshow(images[i])
        plt.title(get class name(np.argmax(labels[i]))) # Convert
one-hot encoded labels back to integers
        plt.axis('off')
    plt.show()
# Visualize some images from the training data
visualize images(train images, train labels)
# Visualize some images from the validation data
visualize images(valid images, valid labels)
# Visualize some images from the testing data
visualize images(test images, test labels)
```





```
# Define the number of training epochs
num epochs = 10
# Train the model
train loss values = []
train accuracy values = []
val loss values = []
val accuracy values = []
for epoch in range(num epochs):
   print(f"Epoch {epoch + 1}/{num epochs}")
   history = model.fit(train_datagen.flow(train images, train labels,
batch size=batch size),
                     steps per epoch=len(train images) //
batch size, epochs=1,
validation data=valid datagen.flow(valid images, valid labels,
batch size=batch size),
                     validation steps=len(valid images) //
batch size)
   train loss values.append(history.history['loss'][0])
   train accuracy values.append(history.history['accuracy'][0])
   val loss values.append(history.history['val loss'][0])
   val accuracy values.append(history.history['val accuracy'][0])
Epoch 1/10
- accuracy: 0.6736 - val loss: 0.1599 - val accuracy: 0.9844
Epoch 2/10
- accuracy: 0.8584 - val loss: 0.1837 - val accuracy: 0.9219
Epoch 3/10
```

```
- accuracy: 0.8750 - val loss: 0.0928 - val accuracy: 0.9844
Epoch 4/10
- accuracy: 0.8947 - val loss: 0.0621 - val accuracy: 0.9844
Epoch 5/10
- accuracy: 0.8959 - val loss: 0.0440 - val accuracy: 1.0000
Epoch 6/10
- accuracy: 0.9187 - val loss: 0.0628 - val accuracy: 0.9844
- accuracy: 0.9249 - val loss: 0.0381 - val accuracy: 0.9844
Epoch 8/10
- accuracy: 0.9286 - val loss: 0.0282 - val accuracy: 1.0000
Epoch 9/10
- accuracy: 0.9273 - val loss: 0.0326 - val accuracy: 1.0000
Epoch 10/10
- accuracy: 0.9323 - val loss: 0.0320 - val accuracy: 0.9844
# Evaluate the model on the test data
test_loss, test_accuracy =
model.evaluate(test datagen.flow(test images, test labels,
batch size=batch size),
                             steps=len(test images) //
batch size)
print(f'Test loss: {test_loss}, Test accuracy: {test_accuracy}')
# Make predictions on the test data
y pred = model.predict(test images)
y pred classes = np.argmax(y pred, axis=1)
# Convert one-hot encoded test labels back to integers
test labels int = np.argmax(test labels, axis=1)
# Calculate precision, recall, F1 score, and accuracy
report = classification report(test labels int, y pred classes,
zero division=1)
accuracy = accuracy_score(test_labels_int, y_pred_classes)
print("Classification Report:")
print(report)
print("Test Accuracy:", accuracy)
```

```
2/2 [======== ] - 0s 74ms/step - loss: 0.0903 -
accuracy: 0.9688
Test loss: 0.09026608616113663, Test accuracy: 0.96875
3/3 [======= ] - 0s 61ms/step
Classification Report:
             precision
                          recall f1-score
                                             support
                  1.00
                            0.00
                                      0.00
                                                  12
          1
                                                  12
                  1.00
                            0.00
                                      0.00
          2
                  0.29
                            1.00
                                      0.45
                                                  12
          3
                  0.67
                            0.33
                                      0.44
                                                  12
                            0.00
          4
                  1.00
                                      0.00
                                                  12
          5
                  0.44
                            0.92
                                      0.59
                                                  12
                                      0.38
                                                  72
   accuracy
   macro avg
                  0.73
                            0.38
                                      0.25
                                                  72
                                      0.25
                                                  72
weighted avg
                  0.73
                            0.38
Test Accuracy: 0.375
# Plot accuracy and loss curves
epochs_range = range(1, num_epochs + 1)
plt.figure(figsize=(12, 5))
plt.subplot(1, 2, 1)
plt.plot(epochs range, train accuracy values, label='Training
Accuracy')
plt.plot(epochs range, val accuracy values, label='Validation
Accuracy')
plt.xlabel('Epochs')
plt.ylabel('Accuracy')
plt.title('Training and Validation Accuracy')
plt.legend()
plt.subplot(1, 2, 2)
plt.plot(epochs range, train loss values, label='Training Loss')
plt.plot(epochs range, val loss values, label='Validation Loss')
plt.xlabel('Epochs')
plt.ylabel('Loss')
plt.title('Training and Validation Loss')
plt.legend()
plt.tight layout()
plt.show()
```

