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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
import torch
import torch.nn as nn
import torch.optim as optim
import torchvision.transforms as transforms
import torchvision.datasets as datasets
from torchvision.models import resnet34
from sklearn.metrics import precision score, recall score, f1 score,
accuracy score
# 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 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
```

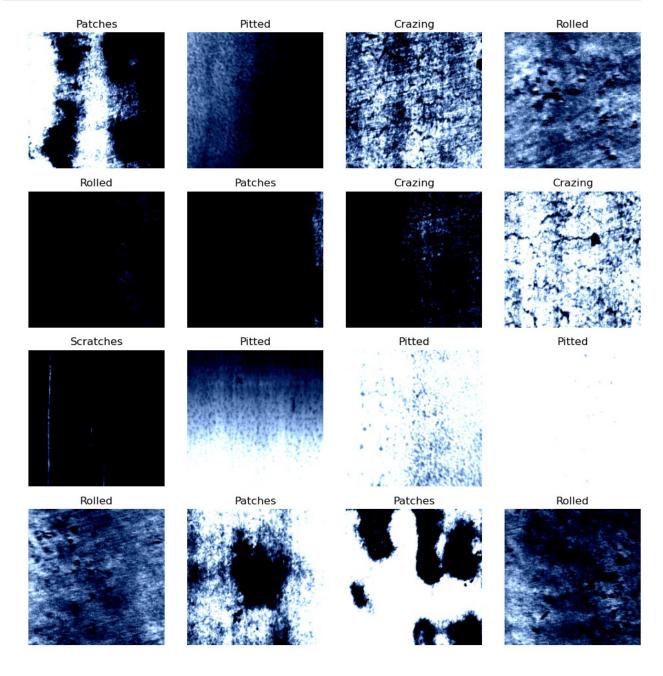
```
Data/train/Crazing/Cr 9.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 244.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
Data/train/Crazing/Cr 151.bmp
/kaggle/input/neu-metal-surface-defects-data/NEU Metal Surface Defects
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
# Load the dataset
train data path = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/train'
test data path = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/test'
valid data path = '/kaggle/input/neu-metal-surface-defects-data/NEU
Metal Surface Defects Data/valid'
# Data transformations
data transforms = transforms.Compose([
    transforms. Resize ((224, 224)), # Resize the images to 224 \times 224
(required for ResNet-34)
    transforms.ToTensor(),
    transforms.Normalize(mean=[0.485, 0.456, 0.406], std=[0.229,
0.224, 0.225]) # Normalize the images
train dataset = datasets.ImageFolder(train data path,
transform=data transforms)
test dataset = datasets.ImageFolder(test data path,
transform=data transforms)
valid dataset = datasets.ImageFolder(valid data path,
transform=data transforms)
train loader = torch.utils.data.DataLoader(train dataset,
batch size=64, shuffle=True)
test loader = torch.utils.data.DataLoader(test dataset, batch size=64,
shuffle=False)
valid loader = torch.utils.data.DataLoader(valid dataset,
batch size=64, shuffle=False)
# Function to plot a grid of images
def imshow_grid(images, labels, classes, rows=4, cols=4):
    fig, axes = plt.subplots(rows, cols, figsize=(10, 10))
    for i, ax in enumerate(axes.flat):
        img = images[i]
        label = labels[i]
        ax.imshow(np.transpose(img, (1, 2, 0)))
        ax.set title(classes[label])
        ax.axis('off')
    plt.tight layout()
    plt.show()
```

```
# Load a batch of images and labels from the training dataset
sample_loader = iter(train_loader)
images, labels = next(sample_loader)

# Get class names from the dataset
class_names = train_dataset.classes

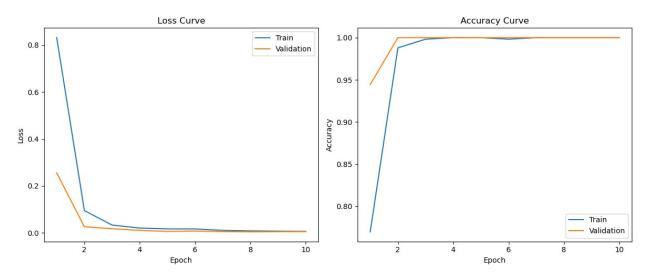
# Visualize the images
imshow_grid(images, labels, class_names)
```



```
# Initilize resnet34 model
model = resnet34(weights=True) # Load pre-trained weights
# Replace the last fully connected layer to match your dataset's
number of classes
num classes = len(train dataset.classes)
num ftrs = model.fc.in features
model.fc = nn.Linear(num ftrs, num classes)
# Move the model to GPU if available
device = torch.device("cuda:0" if torch.cuda.is available() else
"cpu")
model = model.to(device)
# Define loss function and optimizer
criterion = nn.CrossEntropyLoss()
optimizer = optim.SGD(model.parameters(), lr=0.001, momentum=0.9)
# Train the model
def train model(model, criterion, optimizer, num epochs=10):
    train loss list = []
    valid loss list = []
    train acc list = []
    valid acc list = []
    for epoch in range(num epochs):
        model.train()
        running loss = 0.0
        correct_train = 0
        total train = 0
        for inputs, labels in train loader:
            inputs, labels = inputs.to(device), labels.to(device)
            optimizer.zero grad()
            outputs = model(inputs)
            loss = criterion(outputs, labels)
            loss.backward()
            optimizer.step()
            running loss += loss.item()
            , predicted = torch.max(outputs, 1)
            total train += labels.size(0)
            correct_train += (predicted == labels).sum().item()
        epoch loss = running loss / len(train loader)
        train accuracy = correct train / total train
        # Validation
        model.eval()
```

```
correct valid = 0
        total valid = 0
        running valid loss = 0.0
        with torch.no grad():
            for inputs, labels in valid loader:
                inputs, labels = inputs.to(device), labels.to(device)
                outputs = model(inputs)
                loss = criterion(outputs, labels)
                running valid loss += loss.item()
                , predicted = torch.max(outputs, 1)
                total valid += labels.size(0)
                correct valid += (predicted == labels).sum().item()
        epoch_valid_loss = running_valid_loss / len(valid_loader)
        valid accuracy = correct valid / total_valid
        # Record metrics
        train loss list.append(epoch loss)
        valid loss list.append(epoch valid loss)
        train acc list.append(train accuracy)
        valid acc list.append(valid accuracy)
        print(f"Epoch {epoch + 1}/{num epochs}, Train Loss:
{epoch loss:.4f}, Valid Loss: {epoch valid loss:.4f}, Train Accuracy:
{train accuracy:.4f}, Valid Accuracy: {valid accuracy:.4f}")
   # Plot loss and accuracy curves
   plt.figure(figsize=(12, 5))
   plt.subplot(1, 2, 1)
   plt.plot(range(1, num epochs + 1), train loss list, label='Train')
   plt.plot(range(1, num epochs + 1), valid loss list,
label='Validation')
   plt.xlabel('Epoch')
   plt.ylabel('Loss')
   plt.legend()
   plt.title('Loss Curve')
   plt.subplot(1, 2, 2)
   plt.plot(range(1, num epochs + 1), train acc list, label='Train')
   plt.plot(range(1, num_epochs + 1), valid acc list,
label='Validation')
   plt.xlabel('Epoch')
   plt.ylabel('Accuracy')
   plt.legend()
   plt.title('Accuracy Curve')
   plt.tight layout()
```

```
plt.show()
# ... (Code to define the model, criterion, optimizer, and data
loaders)
train model(model, criterion, optimizer, num epochs=10)
Epoch 1/10, Train Loss: 0.8313, Valid Loss: 0.2557, Train Accuracy:
0.7699, Valid Accuracy: 0.9444
Epoch 2/10, Train Loss: 0.0952, Valid Loss: 0.0261, Train Accuracy:
0.9879, Valid Accuracy: 1.0000
Epoch 3/10, Train Loss: 0.0334, Valid Loss: 0.0179, Train Accuracy:
0.9982, Valid Accuracy: 1.0000
Epoch 4/10, Train Loss: 0.0206, Valid Loss: 0.0107, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
Epoch 5/10, Train Loss: 0.0171, Valid Loss: 0.0063, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
Epoch 6/10, Train Loss: 0.0169, Valid Loss: 0.0079, Train Accuracy:
0.9982, Valid Accuracy: 1.0000
Epoch 7/10, Train Loss: 0.0108, Valid Loss: 0.0056, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
Epoch 8/10, Train Loss: 0.0086, Valid Loss: 0.0048, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
Epoch 9/10, Train Loss: 0.0075, Valid Loss: 0.0054, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
Epoch 10/10, Train Loss: 0.0062, Valid Loss: 0.0060, Train Accuracy:
1.0000, Valid Accuracy: 1.0000
```



```
# Evaluate the model

def evaluate_model(model, data_loader):
    model.eval()
    correct_predictions = 0
```

```
total samples = 0
    all predictions = []
    all labels = []
    with torch.no grad():
        for inputs, labels in data loader:
            inputs, labels = inputs.to(device), labels.to(device)
            outputs = model(inputs)
            _, predicted = torch.max(outputs, 1)
            total samples += labels.size(0)
            correct predictions += (predicted == labels).sum().item()
            all predictions.extend(predicted.cpu().numpy())
            all labels.extend(labels.cpu().numpy())
    accuracy = correct predictions / total samples
    precision = precision score(all labels, all predictions,
average='weighted')
    recall = recall score(all labels, all predictions,
average='weighted')
    f1 = f1 score(all labels, all predictions, average='weighted')
    print(f"Accuracy: {accuracy:.4f}")
    print(f"Precision: {precision:.4f}")
    print(f"Recall: {recall:.4f}")
    print(f"F1 Score: {f1:.4f}")
# Evaluate on test set
evaluate model(model, test loader)
Accuracy: 1.0000
Precision: 1.0000
Recall: 1.0000
F1 Score: 1.0000
```