```
import torch
from DatasetLoader import DatasetFetcher
from project model import *
# Check available device
device = torch.device("cuda" if torch.cuda.is available() else "cpu")
print(device)
cuda
# Fetching Dataset
df = DatasetFetcher(dataset="CIFAR10", batch size=128)
testLoader = df.getTestLoader()
Initializing fetching CIFAR10 dataset using torchvision
Downloading https://www.cs.toronto.edu/~kriz/cifar-10-python.tar.gz to
./data/cifar-10-python.tar.gz
100% | 170498071/170498071 [00:02<00:00, 62833531.84it/s]
Extracting ./data/cifar-10-python.tar.gz to ./data
# Get Model
model = project1 model()
model.load state dict(torch.load("./project1 model.pt"))
model = model.to(device)
model.eval()
ResNet(
  (conv1): Conv2d(3, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
  (bn1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
  (layer1): Sequential(
    (0): BasicBlock(
      (conv1): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (1): BasicBlock(
      (conv1): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
```

```
(bn2): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (2): BasicBlock(
      (conv1): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (3): BasicBlock(
      (conv1): Conv2d(32, 32, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
      (conv2): Conv2d(32, 32, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
  (layer2): Sequential(
    (0): BasicBlock(
      (conv1): Conv2d(32, 64, kernel size=(3, 3), stride=(2, 2),
padding=(1, 1)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential(
        (0): Conv2d(32, 64, kernel size=(1, 1), stride=(2, 2))
        (1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (1): BasicBlock(
      (conv1): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
```

```
(bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (2): BasicBlock(
      (conv1): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (3): BasicBlock(
      (conv1): Conv2d(64, 64, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
  (layer3): Sequential(
    (0): BasicBlock(
      (conv1): Conv2d(64, 128, kernel size=(3, 3), stride=(2, 2),
padding=(1, 1)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential(
        (0): Conv2d(64, 128, \text{kernel size}=(1, 1), \text{stride}=(2, 2))
        (1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (1): BasicBlock(
      (conv1): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
```

```
(bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (2): BasicBlock(
      (conv1): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
    (3): BasicBlock(
      (conv1): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
      (conv2): Conv2d(128, 128, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential()
  (layer4): Sequential(
    (0): BasicBlock(
      (conv1): Conv2d(128, 256, kernel size=(3, 3), stride=(2, 2),
padding=(1, 1)
      (bn1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(256, 256, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn2): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (shortcut): Sequential(
        (0): Conv2d(128, 256, kernel size=(1, 1), stride=(2, 2))
        (1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True.
track running stats=True)
    (1): BasicBlock(
      (conv1): Conv2d(256, 256, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
      (bn1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
      (conv2): Conv2d(256, 256, kernel size=(3, 3), stride=(1, 1),
padding=(1, 1)
```