In [2]:

```
import h5py
import torch
from torch.utils.data import TensorDataset, DataLoader, random_split
import matplotlib.pyplot as plt
from torch import nn
from tqdm import tqdm
from sklearn.metrics import roc_auc_score
from tqdm.auto import tqdm
```

In [3]:

```
#importing the electron and photon datasets
electrons_file = h5py.File('/kaggle/input/electron-photon/SingleElectronPt50_IMGCROPS_n249k_RHv1.hdf5', 'r')
photons_file = h5py.File('/kaggle/input/electron-photon/SinglePhotonPt50_IMGCROPS_n249k_RHv1.hdf5', 'r')
```

In [4]:

```
#Splitting the datasets into images and labels
electrons_X = electrons_file['X']
electrons_y = electrons_file['y']

photons_X = photons_file['X']
photons_y = photons_file['y']
```

In [5]:

```
# Converthing them to torch tensors
electrons_X_tensor = torch.tensor(electrons_X[:])
electrons_y_tensor = torch.tensor(electrons_y[:])

photons_X_tensor = torch.tensor(photons_X[:])
photons_y_tensor = torch.tensor(photons_y[:])
```

In [6]:

```
#Concatenating the images and labels into single tensors
X = torch.cat((electrons_X_tensor, photons_X_tensor), dim=0)
y = torch.cat((electrons_y_tensor, photons_y_tensor), dim=0)
```

In [7]:

```
#Shape of the image
X.shape
```

Out[7]:

```
torch.Size([498000, 32, 32, 2])
```

In [8]:

```
# Changing the shape as to make it compatible with pytorch requirements
X = torch.transpose(X, 1, 3)
```

In [9]:

```
#Combining X and y into a single tensor dataset
dataset = TensorDataset(X, y)
```

In [10]:

```
#Determining the train and test size
train_size = int(0.8 * len(dataset))
test_size = len(dataset) - train_size
```

In [12]:

```
#Dividing the dataset into train and test set
train_dataset, test_dataset = random_split(dataset, [train_size, test_size])
```

In [13]:

```
#Making traing and test dataloaders
batch_size = 128
train_dataloader = DataLoader(train_dataset, batch_size=batch_size, shuffle=True)
test_dataloader = DataLoader(test_dataset, batch_size=batch_size, shuffle=False)
```

In [14]:

```
#ResNet15 implementation :-
class Block(nn.Module):
  def __init__(self, input_channels, intermediate_channels, stride=1, identity_downsample
=None):
    super().__init__()
    self.in_channels = input_channels
    self.intermediate_channels = intermediate_channels
    self.identity_downsample = identity_downsample
    self.expansion = 1

    self.conv1 = nn.Conv2d(in_channels = self.in_channels,
                           out_channels = self.intermediate_channels,
                           kernel_size=3,
                           stride=1,
                           padding=1,
                           bias=False)
    self.bn1 = nn.BatchNorm2d(self.intermediate_channels)
    self.relu = nn.ReLU()
    self.conv2 = nn.Conv2d(in_channels = self.intermediate_channels,
                           out_channels = self.intermediate_channels*self.expansion,
                           kernel_size=3,
                           padding=1,
                           stride=stride,
                           bias=False
                           )
    self.bn2 = nn.BatchNorm2d(self.intermediate_channels*self.expansion)

  def forward(self, x):
    identity = x.clone()

    x = self.conv1(x)
    x = self.bn1(x)
    x = self.relu(x)
    x = self.conv2(x)
    x = self.bn2(x)

    if self.identity_downsample != None:
      identity = self.identity_downsample(identity)

    x += identity
    x = self.relu(x)
    return x

class ResNet(nn.Module):
  def __init__(self, block, img_channels, num_classes, layers):
    super().__init__()
    self.in_channels = 64

    self.conv1 = nn.Conv2d(in_channels=img_channels,
                           out_channels = 64,
                           kernel_size=7,
                           stride=2,
                           padding=3,
                           bias = False)
    self.bn1 = nn.BatchNorm2d(64)
    self.relu = nn.ReLU()
    self.conv2 = nn.Conv2d(
```

```
        in_channels = 64,
        out_channels = 64,
        kernel_size = 1,
        stride = 1,
        padding = 0,
        bias = False
    )
    self.bn2 = nn.BatchNorm2d(64)
    self.maxpool = nn.MaxPool2d(kernel_size=3, stride=2)

    self.layer1 = self.make_layer(layers[0], Block, 64, 1)
    self.layer2 = self.make_layer(layers[1], Block, 128, 2)
    self.layer3 = self.make_layer(layers[2], Block, 256, 2)

    self.avg = nn.AdaptiveAvgPool2d((1, 1))
    self.fc = nn.Linear(256 * 1, num_classes)


  def forward(self, x):
    x = self.conv1(x)
    x = self.bn1(x)
    x = self.relu(x)
    x = self.conv2(x)
    x = self.bn2(x)
    x = self.relu(x)
    x = self.maxpool(x)

    x = self.layer1(x)
    x = self.layer2(x)
    x = self.layer3(x)

    x = self.avg(x)
    x = x.reshape(x.shape[0], -1)
    x = self.fc(x)

    return x

  def make_layer(self, num_residual_blocks, block, intermediate_channels, stride):
    blocks = []
    identity_downsample = None

    if stride != 1 or self.in_channels != intermediate_channels * 1:
      identity_downsample = nn.Sequential(
          nn.Conv2d(in_channels = self.in_channels,
                    out_channels = intermediate_channels * 1,
                    stride=stride,
                    kernel_size=1,
                    padding=0,
                    bias = False),
          nn.BatchNorm2d(intermediate_channels * 1)
      )
    blocks.append(block(self.in_channels, intermediate_channels, stride, identity_downsa
mple))

    self.in_channels = intermediate_channels * 1

    for i in range(num_residual_blocks - 1):
      blocks.append(block(self.in_channels, intermediate_channels))

    return nn.Sequential(*blocks)
```

In [15]:

```
#The model below is of the following architecture:
#1. First a convultional layer with a kernel size of 7
#2. Then another conv. layer with kernel size of 1
#3. Then a maxpooling layer
#4. Each block consists of 2 conv. layers and there are a total of 6 blocks.
#5. Hence a total of 15(1 + 1 + 1 + 6 * 2) layers which includes conv. layers and maxpoo
l layers
model = ResNet(Block, 2, 1, [2, 2, 2])
```

In [16]:

```
#Setting the device
device = "cuda" if torch.cuda.is_available else 'cpu'
```

In [17]:

```
#Transferring the model to device
model.to(device)
```

Out[17]:

```
ResNet(
  (conv1): Conv2d(2, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=False)
  (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (relu): ReLU()
  (conv2): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (maxpool): MaxPool2d(kernel_size=3, stride=2, padding=0, dilation=1, ceil_mode=False)
  (layer1): Sequential(
    (0): Block(
      (conv1): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=Fal
se)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tr
ue)
      (relu): ReLU()
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=Fal
se)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tr
ue)
    )
    (1): Block(
      (conv1): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=Fal
se)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tr
ue)
      (relu): ReLU()
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=Fal
se)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tr
ue)
    )
  )
  (layer2): Sequential(
    (0): Block(
      (identity_downsample): Sequential(
        (0): Conv2d(64, 128, kernel_size=(1, 1), stride=(2, 2), bias=False)
        (1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      )
      (conv1): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=Fa
lse)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      (relu): ReLU()
      (conv2): Conv2d(128, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=F
alse)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
    )
    (1): Block(
      (conv1): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=F
alse)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      (relu): ReLU()
      (conv2): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=F
alse)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
    )
  )
```

```
  (layer3): Sequential(
    (0): Block(
      (identity_downsample): Sequential(
        (0): Conv2d(128, 256, kernel_size=(1, 1), stride=(2, 2), bias=False)
        (1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      )
      (conv1): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=F
alse)
      (bn1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      (relu): ReLU()
      (conv2): Conv2d(256, 256, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=F
alse)
      (bn2): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
    )
    (1): Block(
      (conv1): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=F
alse)
      (bn1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
      (relu): ReLU()
      (conv2): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=F
alse)
      (bn2): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=T
rue)
    )
  )
  (avg): AdaptiveAvgPool2d(output_size=(1, 1))
  (fc): Linear(in_features=256, out_features=1, bias=True)
)
```

In [18]:

```
#Setting the loss function and optimizer
criterion = nn.BCEWithLogitsLoss()
optimizer = torch.optim.Adam(model.parameters(), lr=0.001)
```

In [19]:

```
import torch
import torch.nn as nn
import torch.optim as optim
from torch.utils.data import DataLoader, TensorDataset


# Defining training function
def train(model, criterion, optimizer, train_loader, device):
    model.train()
    train_loss = 0.0
    for inputs, targets in tqdm(train_loader):
        inputs, targets = inputs.to(device), targets.to(device)
        optimizer.zero_grad()
        outputs = model(inputs)
        loss = criterion(outputs, targets.view(-1, 1))
        loss.backward()
        optimizer.step()
        train_loss += loss.item() * inputs.size(0)
    return train_loss / len(train_loader.dataset)

# Defining the evaluation function
def evaluate(model, data_loader, device):
    model.eval()
    y_true = []
    y_scores = []
    with torch.inference_mode():
        for inputs, targets in data_loader:
            inputs, targets = inputs.to(device), targets.to(device)
            outputs = model(inputs)
            y_true.extend(targets.cpu().numpy())
```

```
            y_scores.extend(outputs.cpu().numpy())
    return roc_auc_score(y_true, y_scores)
```

Logic for early stopping:

The code checks the validation performance (in this case, ROC-AUC score) after each epoch and tracks the performance over time. If the performance does not improve for a certain number of epochs (max_monotonic_increase), indicating a monotonic increase in the validation loss, or if it surpasses a tolerance threshold and does not improve for a certain number of epochs (max_gradual_increase), training is stopped early.

In [22]:

```
# Setting maximum patience for early stopping
max_monotonic_increase = 10
max_gradual_increase = 10

# Initializing the variables for early stopping and plotting
current_mono = 0
current_tolerance = 0
tolerance = float('inf')
# Initializing the best-auc variable
best_auc = 0.0
```

In [23]:

```
epochs = 20
# Training loop
for epoch in range(1, epochs + 1):
    print("Epoch {}/{}".format(epoch, epochs))
    train_loss = train(model, criterion, optimizer, train_dataloader, device)
    test_auc = evaluate(model, test_dataloader, device)

    print("Train Loss: {:.4f}, Test ROC-AUC: {:.4f}".format(train_loss, test_auc))

    # Update patience and tolerance
    if test_auc <= tolerance:
        current_tolerance += 1
    else:
        current_tolerance = 0
        tolerance = test_auc

    if current_tolerance == max_gradual_increase:
        print("Early stopping training due to overfitting...")
        break
     # Saving checkpoint
    if test_auc > best_auc:
        best_auc = test_auc
        torch.save(model.state_dict(), '/kaggle/working/best_model.pth')
        print("Saving model checkpoint...")

    # Updating patience for early stopping
    if test_auc <= best_auc:
        current_mono += 1
    else:
        current_mono = 0

    if current_mono == max_monotonic_increase:
        print("Early stopping training due to overfitting...")
        break

print("Training completed!")
```

```
Epoch 1/20


Train Loss: 0.5548, Test ROC-AUC: 0.7887
Saving model checkpoint...
Epoch 2/20
```

```
Train Loss: 0.5513, Test ROC-AUC: 0.7885
Epoch 3/20

Train Loss: 0.5484, Test ROC-AUC: 0.7897
Saving model checkpoint...
Epoch 4/20

Train Loss: 0.5452, Test ROC-AUC: 0.7914
Saving model checkpoint...
Epoch 5/20

Train Loss: 0.5428, Test ROC-AUC: 0.7937
Saving model checkpoint...
Epoch 6/20

Train Loss: 0.5397, Test ROC-AUC: 0.7926
Epoch 7/20

Train Loss: 0.5368, Test ROC-AUC: 0.7945
Saving model checkpoint...
Epoch 8/20

Train Loss: 0.5340, Test ROC-AUC: 0.7921
Epoch 9/20

Train Loss: 0.5308, Test ROC-AUC: 0.7917
Epoch 10/20

Train Loss: 0.5273, Test ROC-AUC: 0.7925
Early stopping training due to overfitting...
Training completed!
```

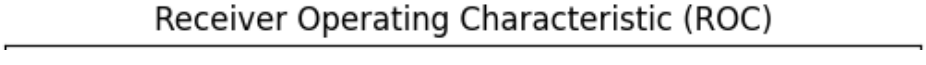
In [24]:

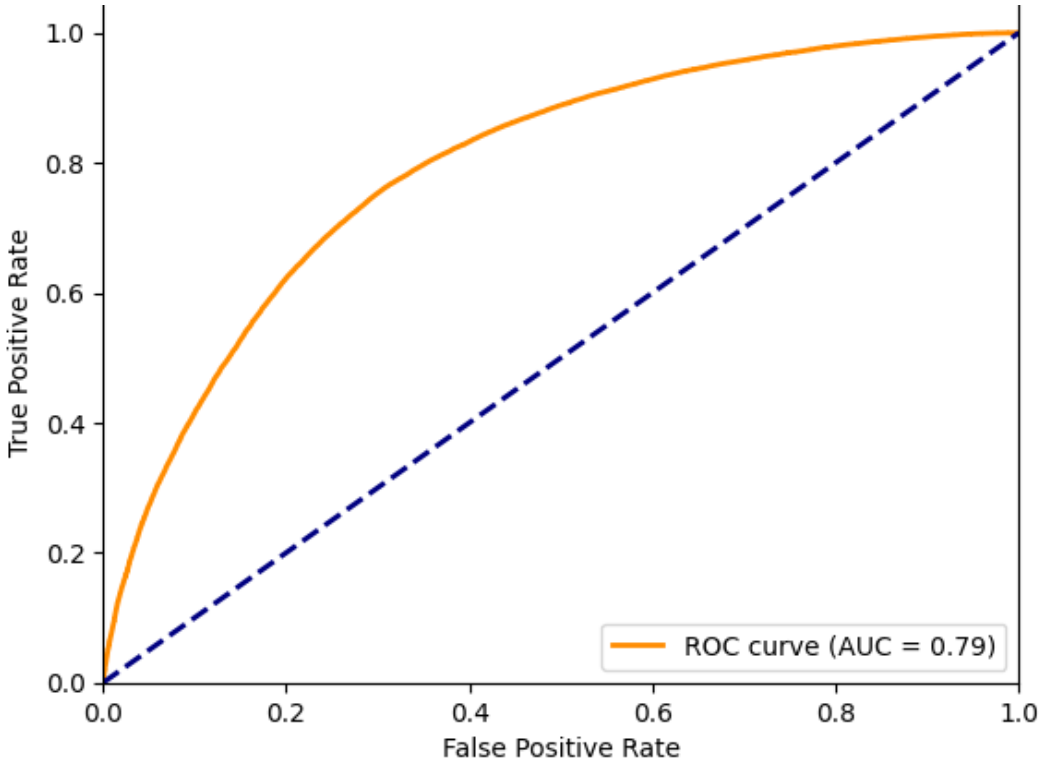
```
import matplotlib.pyplot as plt
from sklearn.metrics import roc_curve, auc

# Evaluating the best model on test data
best_model = ResNet(Block, 2, 1, [2, 2, 2]).to(device)
best_model.load_state_dict(torch.load('/kaggle/working/best_model.pth'))
y_true = []
y_scores = []
with torch.no_grad():
    for inputs, targets in test_dataloader:
        inputs, targets = inputs.to(device), targets.to(device)
        outputs = best_model(inputs)
        y_true.extend(targets.cpu().numpy())
        y_scores.extend(outputs.cpu().numpy())

# Calculating ROC curve and AUC
fpr, tpr, thresholds = roc_curve(y_true, y_scores)
roc_auc = auc(fpr, tpr)

# Plotting ROC curve
plt.figure()
plt.plot(fpr, tpr, color='darkorange', lw=2, label='ROC curve (AUC = {:.2f})'.format(roc
_auc))
plt.plot([0, 1], [0, 1], color='navy', lw=2, linestyle='--')
plt.xlim([0.0, 1.0])
plt.ylim([0.0, 1.05])
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.title('Receiver Operating Characteristic (ROC)')
plt.legend(loc="lower right")
plt.show()
```





In [25]:

```
#Model weights
model.state_dict()
```

Out[25]:

```
OrderedDict([('conv1.weight',
              tensor([[[[ 0.7041,  0.2576,  0.0749,  ..., -0.6531, -0.1880, -0.5367],
                        [ 0.6931, -0.0556,  0.3573,  ...,  0.0131, -0.1520,  0.0090],
                        [ 0.1453,  0.2114, -0.0401,  ...,  0.1847,  0.1799, -0.4846],
                        ...,
                        [-0.1531, -0.4277,  0.2416,  ..., -0.7797, -0.0217,  0.7188],
                        [ 1.0999,  1.0475,  0.9523,  ..., -0.3269, -0.5014, -0.5402],
                        [ 0.0831,  0.0215,  0.7343,  ..., -0.4612, -0.3391, -1.1380]],

                       [[-0.0246,  0.0965, -0.0391,  ...,  0.1091, -0.2653, -0.2248],
                        [-0.3413,  0.0225,  0.0254,  ..., -0.0019, -0.0630,  0.0857],
                        [-0.1245, -0.3763,  0.1498,  ...,  0.0483,  0.0060,  0.1022],
                        ...,
                        [-0.0192,  0.2847, -0.1571,  ..., -0.1285, -0.3833,  0.2029],
                        [ 0.0492,  0.0970, -0.2278,  ..., -0.0669,  0.2730, -0.1347],
                        [ 0.1150,  0.2131,  0.0899,  ..., -0.1566,  0.0821, -0.0319]]],


                      [[[ 0.2477,  0.2555,  0.1103,  ...,  0.2932, -0.6200, -0.6015],
                        [ 0.5250,  0.1165,  0.5281,  ...,  0.3224,  0.2380, -0.1433],
                        [ 0.8242,  0.5034,  0.6940,  ...,  0.3502,  0.6549,  0.1431],
                        ...,
                        [-0.3888, -0.5764, -0.4789,  ...,  0.1625,  0.0417,  0.0357],
                        [ 0.0684,  0.5105,  0.2146,  ..., -0.2500, -0.7879, -0.4381],
                        [-0.0406,  0.1443, -0.8026,  ..., -0.2544, -0.4846, -0.1733]],

                       [[-0.1195, -0.0259, -0.1781,  ...,  0.2085,  0.1089, -0.0266],
                        [-0.0498,  0.0833, -0.0415,  ..., -0.1806, -0.2134, -0.0765],
                        [-0.1799,  0.3133, -0.2484,  ...,  0.1060, -0.0692,  0.0360],
                        ...,
                        [-0.2719, -0.2492, -0.0876,  ...,  0.3067, -0.1867,  0.0363],
                        [-0.1141, -0.0060,  0.3466,  ..., -0.2762, -0.3460,  0.1789],
                        [-0.0914,  0.0131,  0.3428,  ..., -0.2280, -0.0476,  0.0768]]],


                      [[[-0.3359, -0.3536, -0.3183,  ..., -0.5775, -0.2895, -0.3699],
                        [-0.3626, -0.2390, -0.8268,  ..., -0.9720, -1.0284, -0.2911],
                        [ 0.2822,  0.7759, -0.1458,  ..., -0.1148,  0.1760,  0.2022],
                        ...,
```

```
                      [-0.5162, -0.5713, -0.4279,  ..., -0.4239,  0.0142, -0.0576],
                      [-0.6757, -1.0062, -0.5406,  ..., -0.4544, -0.3527,  0.0199],
                      [-1.0394, -0.3057, -0.2049,  ..., -0.5202, -0.4036, -0.2635]],

                     [[ 0.0281, -0.0161,  0.0306,  ..., -0.0325,  0.0987,  0.2765],
                      [-0.1987,  0.2026, -0.1069,  ..., -0.1132, -0.1071, -0.1787],
                      [ 0.0475,  0.2424,  0.2104,  ...,  0.2469,  0.0421,  0.3803],
                      ...,
                      [-0.3027, -0.2330, -0.0534,  ...,  0.2137, -0.0887,  0.2308],
                      [-0.0312, -0.0115, -0.0973,  ...,  0.2150, -0.1370,  0.1262],
                      [ 0.0636,  0.1185,  0.1597,  ..., -0.0308, -0.2302,  0.0942]]],


                    ...,


                    [[[-0.0193,  0.1483, -0.1390,  ...,  0.7782,  0.2638,  0.1092],
                      [-0.2392, -1.4796, -1.3079,  ...,  0.1145, -0.2378,  0.1233],
                      [ 0.2194,  0.6400, -0.3976,  ..., -0.1256, -0.0432, -0.1009],
                      ...,
                      [-1.2425, -0.9002, -0.8090,  ..., -0.6169, -1.0243, -1.4196],
                      [-1.5935, -1.4335, -0.1418,  ..., -0.5578, -1.1908, -1.2594],
                      [ 0.3830,  0.2088,  0.3196,  ..., -1.2414, -1.0319, -0.1737]],

                     [[-0.1391,  0.0217, -0.0879,  ...,  0.1810,  0.0260, -0.0888],
                      [ 0.3592, -0.0481,  0.0430,  ..., -0.0068, -0.1395,  0.0399],
                      [-0.1448,  0.0804,  0.0572,  ..., -0.2953,  0.0288,  0.0254],
                      ...,
                      [-0.0406,  0.0517,  0.0949,  ...,  0.0027, -0.1343,  0.0265],
                      [-0.0494, -0.1480, -0.0834,  ...,  0.1375, -0.0302, -0.1081],
                      [-0.1596, -0.0455, -0.0269,  ..., -0.0118, -0.0430,  0.0609]]],


                    [[[ 0.1335, -0.3259,  0.0993,  ..., -0.2395, -0.3900,  0.3825],
                      [ 0.1096,  0.2934,  0.5191,  ..., -0.0087, -0.0729, -0.4147],
                      [ 0.0385,  0.2138, -0.3275,  ..., -0.4883, -0.7820, -0.3546],
                      ...,
                      [-0.3983, -0.1500,  0.0952,  ..., -0.9207, -0.2150,  0.0323],
                      [-0.4407, -0.3332,  0.1862,  ...,  0.1702,  0.0031,  0.3607],
                      [-0.1865, -0.5602,  0.2315,  ..., -0.1417, -0.0747,  0.5400]],

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                      [ 0.3101,  0.1755,  0.1198,  ...,  0.2535,  0.1821, -0.3976],
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                      ...,
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                    [[[ 0.8619,  0.3340,  0.0456,  ..., -0.7054, -0.5519, -0.6325],
                      [ 0.4681,  0.1723,  0.5400,  ..., -0.2399,  0.3892, -0.1709],
                      [ 0.0267,  0.5459, -0.7843,  ...,  0.2542, -0.2043, -0.3593],
                      ...,
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                      [ 0.8412,  0.9863,  0.7487,  ..., -0.2181, -0.1971,  0.0506],
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                     [[-0.1082,  0.0703, -0.0221,  ...,  0.0817,  0.3004, -0.1779],
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                      [ 0.0425, -0.1217,  0.1162,  ...,  0.0694,  0.3389, -0.0329],
                      [ 0.1881,  0.0487, -0.0614,  ..., -0.1921,  0.0655,  0.3230]]]],
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611,
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553,
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766,
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735,
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581,
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050,
                    0.9310, 0.8339, 0.5284, 0.5255, 1.4180, 0.7760, 1.0396, 1.0217, 0.4
340,
                    0.5498], device='cuda:0')),
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013,
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3835,
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785,
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745,
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105,
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0075,
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2139],
                   device='cuda:0')),
             ('bn1.running_mean',
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0258,
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0011,
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0079,
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0054],
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325,
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112,
                    0.0099], device='cuda:0')),
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                       [[-0.0110]],

                       [[ 0.0601]],

                       ...,
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 [[ 0.0133]],

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867,
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751,
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241,
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374,
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851,
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862,
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2222,
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0889,
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2306,
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0070,
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0329],
                     device='cuda:0')),
             ('bn2.running_mean',
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1969,
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2152,
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2502,
                      -1.6818, -1.7631, -0.7370, -2.1370, -1.7920, -1.5573, -1.3378, -2.
5147,
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8504,
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7902,
                       2.2551, -2.9148,  2.3548, -1.1793, -1.8602, -1.6632, -0.3879,  2.
4793,
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2255],
                     device='cuda:0')),
             ('bn2.running_var',
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863,
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928,
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158,
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176,
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```
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628,
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307,
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743,
                    0.9025], device='cuda:0')),
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                        [-1.0547e-01, -1.8404e-02, -4.5756e-02]],

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                       [[ 3.5341e-01,  2.1718e-01,  3.6460e-01],
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                     [[ 2.3573e-01,  3.1665e-01,  2.5306e-01],
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                     ...,

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450,
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  [ 2.3711e-01, -1.4725e-01, -4.1125e-01],
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  [-2.2658e-01, -2.0803e-01, -1.0971e-01]],

 [[ 5.1410e-02,  1.3623e-01, -1.1635e-02],
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  [ 2.8353e-01,  1.3417e-01,  3.7792e-02]],
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                       [ 3.3265e-02, -2.1473e-02,  1.6725e-02]],

                      [[ 5.9607e-02, -1.8693e-01,  5.9000e-02],
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                      [[-1.0338e-03,  2.3140e-01,  1.6358e-01],
                       [-2.2908e-01,  9.0720e-02,  6.0785e-02],
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              tensor([0.8926, 1.0107, 0.8182, 0.8677, 0.8995, 1.0418, 0.8566, 0.7921, 0.8
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```

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2918],
               device='cuda:0')),
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88,
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                -15.8698], device='cuda:0')),
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                201.8642], device='cuda:0')),
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```

```
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           [-0.0163, -0.5228, -0.4157]],

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           [-0.1630, -0.3475, -0.2024],
           [-0.1773, -0.1441, -0.0276]],

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          [[ 0.1421,  0.1815,  0.1706],
           [ 0.1696,  0.1618,  0.1990],
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          [[ 0.0212, -0.0229, -0.0319],
           [-0.2768, -0.1920,  0.0763],
           [-0.3788, -0.4349, -0.3379]],

          [[ 0.4632,  0.2621, -0.0508],
           [ 0.1633, -0.0784,  0.1914],
           [ 0.4442,  0.0898,  0.5489]]],


         [[[-0.0520,  0.1084, -0.1611],
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           [ 0.0273, -0.1053, -0.0410]],

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```
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  [-0.3021, -0.3468, -0.1999]],

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757,
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604,
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550,
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092,
                      0.3694], device='cuda:0')),
             ('layer1.1.bn2.bias',
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5107],
                     device='cuda:0')),
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0784,
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1585],
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66,
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81,
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74,
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02,
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51,
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29,
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87,
                       95.2968], device='cuda:0')),
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                       [[-4.7405e-04]]],


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                      [[-5.2357e-02]],

                      [[-2.6410e-01]]]], device='cuda:0')),
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706,
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520,
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507,
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085,
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696,
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760,
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656,
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```

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3200],
                     device='cuda:0')),
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6931,
                       5.4859, -0.7190,  1.3924, -0.4222,  0.3960,  1.4903,  0.3474, -0.
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5337],
                     device='cuda:0')),
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                3.7767, 1.7339], device='cuda:0')),
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  [ 0.2533,  0.3295,  0.0847]],

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  [ 0.0342, -0.2266, -0.0466]],
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                       [ 0.1673, -0.1630,  0.0476]]]], device='cuda:0')),
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055,
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