Image Classifier Project

August 26, 2021

1 Developing an AI application

Going forward, AI algorithms will be incorporated into more and more everyday applications. For example, you might want to include an image classifier in a smart phone app. To do this, you'd use a deep learning model trained on hundreds of thousands of images as part of the overall application architecture. A large part of software development in the future will be using these types of models as common parts of applications.

In this project, you'll train an image classifier to recognize different species of flowers. You can imagine using something like this in a phone app that tells you the name of the flower your camera is looking at. In practice you'd train this classifier, then export it for use in your application. We'll be using this dataset of 102 flower categories, you can see a few examples below.

The project is broken down into multiple steps:

- Load and preprocess the image dataset
- Train the image classifier on your dataset
- Use the trained classifier to predict image content

We'll lead you through each part which you'll implement in Python.

When you've completed this project, you'll have an application that can be trained on any set of labeled images. Here your network will be learning about flowers and end up as a command line application. But, what you do with your new skills depends on your imagination and effort in building a dataset. For example, imagine an app where you take a picture of a car, it tells you what the make and model is, then looks up information about it. Go build your own dataset and make something new.

First up is importing the packages you'll need. It's good practice to keep all the imports at the beginning of your code. As you work through this notebook and find you need to import a package, make sure to add the import up here.

```
import seaborn as sns
        %matplotlib inline
        from matplotlib.ticker import FormatStrFormatter
        %matplotlib inline
        %config InlineBackend.figure_format = 'retina'
        import torch
        from torch import nn, optim
        from torch.autograd import Variable
        from torch.optim import lr_scheduler
        import torch.nn.functional as F
        import torchvision
        from torchvision import datasets, transforms, models
        from torchvision.datasets import ImageFolder
        import torchvision.models as models
        from torch.utils import data
        from collections import OrderedDict
        import time
        import random, os
        from os import listdir
        import json
        import requests
        import signal
        import copy
        from PIL import Image
In [2]: # Test GPU availability
        torch.cuda.is_available()
Out[2]: True
```

1.1 Load the data

Here you'll use torchvision to load the data (documentation). The data should be included along-side this notebook, otherwise you can download it here. The dataset is split into three parts, training, validation, and testing. For the training, you'll want to apply transformations such as random scaling, cropping, and flipping. This will help the network generalize leading to better performance. You'll also need to make sure the input data is resized to 224x224 pixels as required by the pre-trained networks.

The validation and testing sets are used to measure the model's performance on data it hasn't seen yet. For this you don't want any scaling or rotation transformations, but you'll need to resize then crop the images to the appropriate size.

The pre-trained networks you'll use were trained on the ImageNet dataset where each color channel was normalized separately. For all three sets you'll need to normalize the means and standard deviations of the images to what the network expects. For the means, it's [0.485, 0.456,

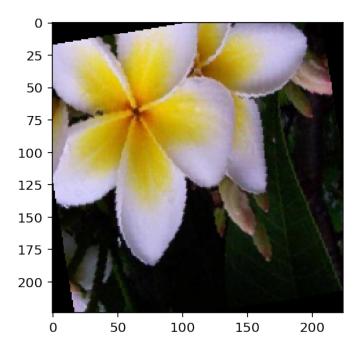
0.406] and for the standard deviations [0.229, 0.224, 0.225], calculated from the ImageNet images. These values will shift each color channel to be centered at 0 and range from -1 to 1.

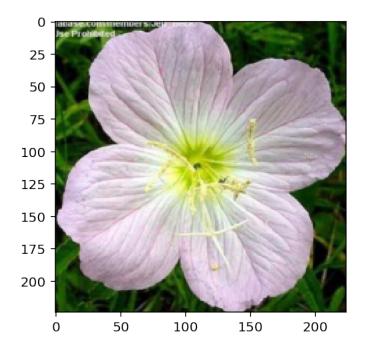
```
In [3]: ## Start: Codes provided by Udacity
       data_dir = 'flowers'
       train_dir = data_dir + '/train'
        valid_dir = data_dir + '/valid'
        test_dir = data_dir + '/test'
        ## End: Codes provided by Udacity
In [4]: # Dataset controls
        image_size = 224 # Image size in pixels # Goes into Cell 5
        reduction = 256 # Image reduction to smaller edge # Goes into Cell 5
        norm_means = [0.485, 0.456, 0.406] # Normalized means of the images # Goes into Cell 5
        norm_std = [0.229, 0.224, 0.225] # Normalized standard deviations of the images # Goes a
        rotation = 30 # Range of degrees for rotation # Goes into Cell 5
        batch_size = 64 # Number of images used in a single pass # Goes into Cell 5
        shuffle = True # Randomize image selection for a batch # Goes into Cell 5
In [5]: # TODO: Define your transforms for the training, validation, and testing sets
        training_transforms = transforms.Compose([transforms.RandomResizedCrop(image_size),
                                               transforms.RandomRotation(rotation),
                                               transforms.RandomHorizontalFlip(),
                                               transforms.RandomVerticalFlip(),
                                               transforms.ToTensor(),
                                               transforms.Normalize(norm_means, norm_std)])
        validation_transforms = transforms.Compose([transforms.Resize(reduction),
                                              transforms.CenterCrop(image_size),
                                              transforms.ToTensor(),
                                              transforms.Normalize(norm_means, norm_std)])
        testing_transforms = transforms.Compose([transforms.Resize(reduction),
                                              transforms.CenterCrop(image_size),
                                              transforms.ToTensor(),
                                              transforms.Normalize(norm_means, norm_std)])
        # data_transforms = {"training": train_transforms,
                             "validation": valid_transforms,
        #
                             "testing": test_transforms}
        # # TODO: Load the datasets with ImageFolder
        train_data = datasets.ImageFolder(train_dir, transform=training_transforms)
        valid_data = datasets.ImageFolder(valid_dir, transform=validation_transforms)
        test_data = datasets.ImageFolder(test_dir, transform=testing_transforms)
        # image_datasets = {"training": train_data,
                             "validation": valid data,
```

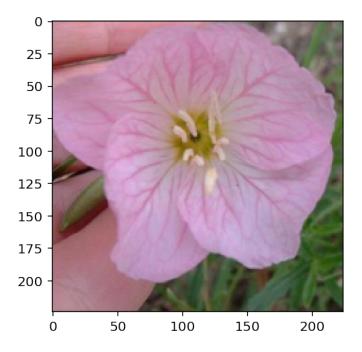
```
"testing": test_data}
        #
        image_datasets = [datasets.ImageFolder(train_dir, transform=training_transforms), # can
                          datasets.ImageFolder(valid_dir, transform=validation_transforms),
                          datasets.ImageFolder(test_dir, transform=testing_transforms)]
        # # TODO: Using the image datasets and the trainforms, define the dataloaders
        # trainloader = torch.utils.data.DataLoader(train_data, batch_size=batch_size, shuffle=s
        # validloader = torch.utils.data.DataLoader(valid_data, batch_size=batch_size)
        # testloader = torch.utils.data.DataLoader(test_data, batch_size=batch_size)
        # dataloaders = {"training": trainloader,
                             "validation": validloader.
                             "testing": testloader}
        dataloaders = [torch.utils.data.DataLoader(image_datasets[0], batch_size=64, shuffle=Tru
                       torch.utils.data.DataLoader(image_datasets[1], batch_size=64, shuffle=Tru
                       torch.utils.data.DataLoader(image_datasets[2], batch_size=64, shuffle=Tru
        trainloader = torch.utils.data.DataLoader(train_data, batch_size=64, shuffle=True)
        validloader = torch.utils.data.DataLoader(valid_data, batch_size=64)
        testloader = torch.utils.data.DataLoader(test_data, batch_size=64)
In [6]: def imshow(image, ax=None, title=None):
            """Imshow for Tensor."""
            if ax is None:
                fig, ax = plt.subplots()
            # PyTorch tensors assume the color channel is the first dimension
            # but matplotlib assumes is the third dimension
            image = image.numpy().transpose((1, 2, 0))
            # Undo preprocessing
            mean = np.array([0.485, 0.456, 0.406])
            std = np.array([0.229, 0.224, 0.225])
            image = std * image + mean
            # Image needs to be clipped between 0 and 1 or it looks like noise when displayed
            image = np.clip(image, 0, 1)
            ax.imshow(image)
            return ax
In [7]: # Test the train_data_loader
        images, labels = next(iter(trainloader))
```

```
imshow(images[2])
images, labels = next(iter(validloader))
imshow(images[2])
images, labels = next(iter(testloader))
imshow(images[2])
```

Out[7]: <matplotlib.axes._subplots.AxesSubplot at 0x7f99c50853c8>







1.1.1 Label mapping

You'll also need to load in a mapping from category label to category name. You can find this in the file cat_to_name.json. It's a JSON object which you can read in with the json module.

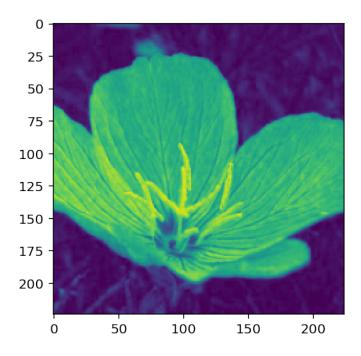
This will give you a dictionary mapping the integer encoded categories to the actual names of the flowers.

```
In [8]: # load Json file with names of flowers
        ## Start: Codes provided by Udacity
        import json
        with open('cat_to_name.json', 'r') as f:
            cat_to_name = json.load(f)
        ## End: Codes provided by Udacity
        # Check the contents of cat_to_name json file
        for i, key in enumerate(cat_to_name.keys()):
            print(key, '\t->', cat_to_name[key])
            if i == 20:
                break
        print("There are a total of {} image categories.".format(len(cat_to_name)))
21
           -> fire lily
          -> canterbury bells
3
           -> bolero deep blue
45
1
          -> pink primrose
34
           -> mexican aster
           -> prince of wales feathers
27
7
          -> moon orchid
16
          -> globe-flower
25
           -> grape hyacinth
26
          -> corn poppy
79
           -> toad lily
39
           -> siam tulip
24
          -> red ginger
           -> spring crocus
67
35
           -> alpine sea holly
32
           -> garden phlox
10
          -> globe thistle
6
          -> tiger lily
93
          -> ball moss
33
          -> love in the mist
          -> monkshood
There are a total of 102 image categories.
In [9]: # Quick check of data in json file
        df = pd.DataFrame({'flower_type': cat_to_name})
        df[:30]
Out[9]:
                           flower_type
                         pink primrose
        1
```

```
100
                         blanket flower
        101
                       trumpet creeper
        102
                       blackberry lily
        11
                             snapdragon
        12
                            colt's foot
        13
                            king protea
                          spear thistle
        14
        15
                            yellow iris
        16
                           globe-flower
        17
                     purple coneflower
        18
                          peruvian lily
        19
                         balloon flower
        2
             hard-leaved pocket orchid
        20
                 giant white arum lily
        21
                              fire lily
        22
                     pincushion flower
        23
                             fritillary
        24
                             red ginger
        25
                         grape hyacinth
        26
                             corn poppy
        27
              prince of wales feathers
        28
                       stemless gentian
        29
                              artichoke
        3
                       canterbury bells
        30
                          sweet william
        31
                              carnation
        32
                           garden phlox
                       love in the mist
        33
In [10]: # Test data loaders
         images, labels = next(iter(testloader))
         print(len(images[0,1]))
         plt.imshow(images[1,0])
224
Out[10]: <matplotlib.image.AxesImage at 0x7f99c3ff22e8>
```

globe thistle

10



2 Building and training the classifier

Now that the data is ready, it's time to build and train the classifier. As usual, you should use one of the pretrained models from torchvision.models to get the image features. Build and train a new feed-forward classifier using those features.

We're going to leave this part up to you. Refer to the rubric for guidance on successfully completing this section. Things you'll need to do:

- Load a pre-trained network (If you need a starting point, the VGG networks work great and are straightforward to use)
- Define a new, untrained feed-forward network as a classifier, using ReLU activations and dropout
- Train the classifier layers using backpropagation using the pre-trained network to get the features
- Track the loss and accuracy on the validation set to determine the best hyperparameters

We've left a cell open for you below, but use as many as you need. Our advice is to break the problem up into smaller parts you can run separately. Check that each part is doing what you expect, then move on to the next. You'll likely find that as you work through each part, you'll need to go back and modify your previous code. This is totally normal!

When training make sure you're updating only the weights of the feed-forward network. You should be able to get the validation accuracy above 70% if you build everything right. Make sure to try different hyperparameters (learning rate, units in the classifier, epochs, etc) to find the best model. Save those hyperparameters to use as default values in the next part of the project.

One last important tip if you're using the workspace to run your code: To avoid having your workspace disconnect during the long-running tasks in this notebook, please read in the earlier page in this lesson called Intro to GPU Workspaces about Keeping Your Session Active. You'll want to include code from the workspace_utils.py module.

Note for Workspace users: If your network is over 1 GB when saved as a checkpoint, there might be issues with saving backups in your workspace. Typically this happens with wide dense layers after the convolutional layers. If your saved checkpoint is larger than 1 GB (you can open a terminal and check with 1s -1h), you should reduce the size of your hidden layers and train again.

```
In [11]: # Command to use GPU if it's available
         device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
         # # TODO: Build and train your network
         # model = models.vgg16(pretrained = True)
In [12]: # TODO: Build and train your network
         model = models.densenet121(pretrained=True) # using densenet method
         model
/opt/conda/lib/python3.6/site-packages/torchvision-0.2.1-py3.6.egg/torchvision/models/densenet.p
Downloading: "https://download.pytorch.org/models/densenet121-a639ec97.pth" to /root/.torch/mode
100%|| 32342954/32342954 [00:01<00:00, 18663298.39it/s]
Out[12]: DenseNet(
           (features): Sequential(
             (conv0): Conv2d(3, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=Fals
             (norm0): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=
             (relu0): ReLU(inplace)
             (pool0): MaxPool2d(kernel_size=3, stride=2, padding=1, dilation=1, ceil_mode=False)
             (denseblock1): _DenseBlock(
               (denselayer1): _DenseLayer(
                 (norm1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(64, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
               (denselayer2): _DenseLayer(
                 (norm1): BatchNorm2d(96, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(96, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer3): _DenseLayer(
```

```
(norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer6): _DenseLayer(
    (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition1): _Transition(
  (norm): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock2): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer2): _DenseLayer(
```

```
(norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
```

```
(norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer9): _DenseLayer(
    (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer10): _DenseLayer(
    (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer11): _DenseLayer(
    (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer12): _DenseLayer(
    (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition2): _Transition(
  (norm): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock3): _DenseBlock(
  (denselayer1): _DenseLayer(
```

```
(norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer2): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
```

```
(norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer13): _DenseLayer(
```

```
(norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer14): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer15): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer16): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer17): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer18): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer19): _DenseLayer(
```

```
(norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer20): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer21): _DenseLayer(
  (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer22): _DenseLayer(
  (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer23): _DenseLayer(
  (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer24): _DenseLayer(
  (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
```

```
(transition3): _Transition(
  (norm): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_sta
  (relu): ReLU(inplace)
  (conv): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock4): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer6): _DenseLayer(
```

```
(norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer12): _DenseLayer(
```

```
(norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
               (denselayer13): _DenseLayer(
                 (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer14): _DenseLayer(
                 (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer15): _DenseLayer(
                 (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer16): _DenseLayer(
                 (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
             (norm5): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stat
           (classifier): Linear(in_features=1024, out_features=1000, bias=True)
In [13]: ### Own code starts here ###
         for param in model.parameters():
```

```
param.requires_grad = False
         classifier = nn.Sequential(OrderedDict([ # use sequential to save time
                                   ('fc1', nn.Linear(1024, 500)),
                                   ('dropout', nn.Dropout(p=0.6)),
                                   ('relu1', nn.ReLU()),
                                   ('fc2', nn.Linear(500, 102)),
                                   ('output', nn.LogSoftmax(dim=1))
                                   ]))
         model.classifier = classifier
         model
         ### Own code ends here ###
Out[13]: DenseNet(
           (features): Sequential(
             (conv0): Conv2d(3, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=Fals
             (norm0): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=
             (relu0): ReLU(inplace)
             (pool0): MaxPool2d(kernel_size=3, stride=2, padding=1, dilation=1, ceil_mode=False)
             (denseblock1): _DenseBlock(
               (denselayer1): _DenseLayer(
                 (norm1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(64, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer2): _DenseLayer(
                 (norm1): BatchNorm2d(96, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(96, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
               (denselayer3): _DenseLayer(
                 (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer4): _DenseLayer(
                 (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer6): _DenseLayer(
    (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition1): _Transition(
  (norm): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock2): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

)

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
    (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer10): _DenseLayer(
    (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer11): _DenseLayer(
    (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer12): _DenseLayer(
    (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition2): _Transition(
  (norm): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
)
(denseblock3): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer13): _DenseLayer(
  (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer14): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer15): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer16): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer17): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer18): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer19): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer20): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
    (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer21): _DenseLayer(
    (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer22): _DenseLayer(
    (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer23): _DenseLayer(
    (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer24): _DenseLayer(
    (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition3): _Transition(
  (norm): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_sta
  (relu): ReLU(inplace)
  (conv): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock4): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

)

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer2): _DenseLayer(
  (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer13): _DenseLayer(
  (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
```

```
(conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer14): _DenseLayer(
                 (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer15): _DenseLayer(
                 (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer16): _DenseLayer(
                 (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
             (norm5): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stat
           (classifier): Sequential(
             (fc1): Linear(in_features=1024, out_features=500, bias=True)
             (dropout): Dropout(p=0.6)
             (relu1): ReLU()
             (fc2): Linear(in_features=500, out_features=102, bias=True)
             (output): LogSoftmax()
           )
         )
In [14]: # # Freeze the feature parameters so as not to backpropagate through them; not to compu
         # for param in model.parameters():
                   param.requires_grad = False
         # # Classifying structure through trial and error; create a new classifier
         # model.classifier = nn.Sequential(OrderedDict([
```

(relu1): ReLU(inplace)

```
#
                                      ('fc1', nn.Linear(25088, 2048)),
         #
                                     ('relu', nn.ReLU()),
         #
                                     ('fc2', nn.Linear(2048, 256)),
                                      ('relu', nn.ReLU()),
                                     ('fc3', nn.Linear(256, 102)),
         #
                                      ('output', nn.LogSoftmax(dim=1))
         # print(model)
         # # model = model.to('cuda')
In [15]: # Criterion chosen has recommended for Log Softmax output.
         criterion = nn.NLLLoss()
In [16]: # Reference for choosing suitable learning rate
         # https://medium.com/octavian-ai/which-optimizer-and-learning-rate-should-i-use-for-dee
         optimizer = optim.Adam(model.classifier.parameters(),lr=0.001)
         model.to(device)
Out[16]: DenseNet(
           (features): Sequential(
             (conv0): Conv2d(3, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=Fals
             (norm0): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=
             (relu0): ReLU(inplace)
             (pool0): MaxPool2d(kernel_size=3, stride=2, padding=1, dilation=1, ceil_mode=False)
             (denseblock1): _DenseBlock(
               (denselayer1): _DenseLayer(
                 (norm1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(64, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer2): _DenseLayer(
                 (norm1): BatchNorm2d(96, eps=1e-05, momentum=0.1, affine=True, track_running_st
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(96, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
               (denselayer3): _DenseLayer(
                 (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer6): _DenseLayer(
    (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition1): _Transition(
  (norm): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock2): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer9): _DenseLayer(
    (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer10): _DenseLayer(
    (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer11): _DenseLayer(
    (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer12): _DenseLayer(
    (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition2): _Transition(
  (norm): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stat
  (relu): ReLU(inplace)
  (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock3): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

)

```
(denselayer2): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer3): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer13): _DenseLayer(
  (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer14): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer15): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer16): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer17): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer18): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer19): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer20): _DenseLayer(
    (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer21): _DenseLayer(
    (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer22): _DenseLayer(
    (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer23): _DenseLayer(
    (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer24): _DenseLayer(
    (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
(transition3): _Transition(
  (norm): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_sta
  (relu): ReLU(inplace)
  (conv): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
```

)

```
(denseblock4): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
 )
  (denselayer6): _DenseLayer(
    (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu1): ReLU(inplace)
    (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
)
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu1): ReLU(inplace)
  (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
```

```
(denselayer13): _DenseLayer(
                 (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer14): _DenseLayer(
                 (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               (denselayer15): _DenseLayer(
                 (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
               (denselayer16): _DenseLayer(
                 (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu1): ReLU(inplace)
                 (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
                 (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_s
                 (relu2): ReLU(inplace)
                 (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bia
               )
             (norm5): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stat
           (classifier): Sequential(
             (fc1): Linear(in_features=1024, out_features=500, bias=True)
             (dropout): Dropout(p=0.6)
             (relu1): ReLU()
             (fc2): Linear(in_features=500, out_features=102, bias=True)
             (output): LogSoftmax()
           )
         )
In [17]: # Scheduler based on PyTorch documentation https://pytorch.org/docs/stable/optim.html
         scheduler = lr_scheduler.StepLR(optimizer,step_size=4,gamma=0.1,last_epoch=-1)
```

```
# Number of steps for gradient descent to take
         # epochs = 3
In [18]: # Train the classifier layers using backpropagation using the pre-trained network to ge
         # Track the loss and accuracy on the validation set to determine the best hyperparameter
         # Was advized by Udacity Mentor Chat that this is the wrong approach and the current co
         # Hence, decided to change to the following code in the next cell
         # select the lines you want to comment
         \# and 'use Ctrl + / to comment all of the selected text'. To uncomment do the same thin
         ## Alternative Code starts here. However, code takes more time to run
         # ## epochs = 3
         # steps = 0
         # running_loss = 0
         # print_every = 5
         # for epoch in range(epochs):
               for inputs, labels in trainloader:
                   steps += 1
         #
                   # Move input and label tensors to the default device
                   inputs, labels = inputs.to('cuda'), labels.to('cuda')
                   optimizer.zero_grad()
         #
                   #Forward pass
                   logps = model.forward(inputs)
                   loss = criterion(logps, labels)
                   # Backward pass
                   loss.backward()
                   optimizer.step()
         #
                   running_loss += loss.item()
         #
                   if steps % print_every == 0:
                       print("No. of training batches so far: {}".format(steps))
                       valid_loss = 0
                       test_loss = 0
                       accuracy = 0
         #
                       validn_steps = 0
         #
                       model.eval()
                       with torch.no_grad():
                           for inputs, labels in testloader: #(changed from validloader)
                               validn_steps +=1
                               inputs, labels = inputs.to('cuda'), labels.to('cuda')
         #
                               logps = model.forward(inputs)
         #
                               batch_loss = criterion(logps, labels)
```

```
test_loss += batch_loss.item()
                               #valid_loss += batch_loss.item()
         #
                               # Calculate accuracy
                               ps = torch.exp(logps)
                               top_p, top_class = ps.topk(1, dim=1)
                               equals = top_class == labels.view(*top_class.shape)
                               accuracy += torch.mean(equals.type(torch.FloatTensor)).item()
                       print("No. of validation batches so far: {}".format(validn_steps))
                       print(f"Epoch {epoch+1}/{epochs}.. "
         #
                             f"Loss: {running_loss/print_every:.3f}.. "
                             f"Validation Loss: {valid_loss/len(validloader):.3f}.. "
                             f"Accuracy: {accuracy/len(validloader):.3f}")
         #
                       running_loss = 0
                       model.train()
In [19]: # Def of variables
         # Training
         epochs = 3 # nr of trainings
         print_every = 10 # 0r 5
         steps = 0
         running_loss = 0
         # run_accuracy = 0
         # train_losses, valid_losses = [], []
         # train_accuracy, valid_accuracy = [], []
         # change to cuda
         model.to('cuda') # use cuda
         start = time.time()
         print('Starting training')
         for e in range(epochs):
             running_loss = 0
             for ii, (inputs, labels) in enumerate(dataloaders[0]): # 0 = train
                 steps += 1
                 inputs, labels = inputs.to('cuda'), labels.to('cuda') # use cuda
                 # Zero the gradients - very important
                 optimizer.zero_grad()
                 # Forward passes
                 outputs = model.forward(inputs)
                 # Define loss
                 loss = criterion(outputs, labels)
                 # Backward pass
                 loss.backward()
                 # Take a step towards lower loss
```

```
optimizer.step()
        running_loss += loss.item()
        if steps % print_every == 0:
            model.eval()
            valloss = 0
            accuracy=0
            for ii, (inputs2,labels2) in enumerate(dataloaders[1]): # 1 = validation
                    optimizer.zero_grad()
                    inputs2, labels2 = inputs2.to('cuda') , labels2.to('cuda') # use cu
                    model.to('cuda:0') # use cuda
                    with torch.no_grad():
                        outputs = model.forward(inputs2)
                        valloss = criterion(outputs,labels2)
                        ps = torch.exp(outputs).data
                        equality = (labels2.data == ps.max(1)[1])
                        accuracy += equality.type_as(torch.FloatTensor()).mean()
            valloss = valloss / len(dataloaders[1])
            accuracy = accuracy /len(dataloaders[1])
            print("Epoch: {}/{}... ".format(e+1, epochs),
                  "Training Loss: {:.4f}".format(running_loss/print_every),
                  "Validation Loss {:.4f}".format(valloss),
                  "Accuracy: {:.4f}".format(accuracy),
            running_loss = 0
time_elapsed = time.time() - start
print("\nTime spent training: {:.0f}m {:.0f}s".format(time_elapsed//60, time_elapsed %
# Alternative method for densenet
# for epoch in range(epochs): # nr of traning times
     for inputs, labels in trainloader: # loop through the data
          steps += 1 # train steps
          # Move input and label tensors to the default device (GPU if available)
          inputs = inputs.to(device)
          labels = labels.to(device)
```

```
# Zero the gradients - very important
          optimizer.zero_grad()
          # Forward pass -> log probabilities
          logps = model.forward(inputs)
          # Define loss
          loss = criterion(logps, labels)
          # Backward pass
          loss.backward()
          # Take a step towards lower loss
#
          optimizer.step()
          # Keep track on the total loss
         running_loss += loss.item()
#
          # calculate the accuracy
          ps = torch.exp(logps) # get the actual probability
          top_p, top_class = ps.topk(1, dim=1) # top probabilities and classes
          equals = top_class == labels.view(*top_class.shape)
         run_accuracy += torch.mean(equals.type(torch.FloatTensor)).item()
#
      # Tune/evaluate the model every print_every 5 times
     valid_loss = 0
     accuracy = 0
     model.eval() # set model in evaluation mode
     with torch.no_grad():
#
         for images, labels in validloader:
              # Move images and labels tensors to the default device (GPU if available)
              images = images.to(device)
              labels = labels.to(device)
              # Calculate the loss
              log_ps = model(images) # log of probability
             loss = criterion(log_ps, labels)
#
             valid_loss += loss.item()
              # calculate the accuracy
             ps = torch.exp(log_ps)
             top_p, top_class = ps.topk(1, dim=1)
#
              equals = top_class ==
                                             labels.view(*top_class.shape)
```

```
#
                       accuracy += torch.mean(equals.type(torch.FloatTensor)).item()
         #
               train_losses.append(running_loss/len(trainloader))
         #
               valid_losses.append(valid_loss/len(validloader))
               train_accuracy.append(run_accuracy/len(trainloader))
         #
               valid_accuracy.append(accuracy/len(validloader))
              print(f"Epoch {epoch+1}/{epochs}.. "
         #
                    f"Train loss: {running_loss/print_every:.3f}.. "
         #
                     f"Valid loss: {valid_loss/len(validloader):.3f}.. "
         #
                     f"Train accuracy: {run_accuracy/print_every:.3f}.. "
         #
                     f"Valid accuracy: {accuracy/len(validloader):.3f}.. ")
         #
               running_loss = 0
         #
               model.train()
Starting training
Epoch: 1/3...
              Training Loss: 4.6452 Validation Loss 0.3432 Accuracy: 0.0556
Epoch: 1/3...
              Training Loss: 4.3619 Validation Loss 0.3220 Accuracy: 0.1123
Epoch: 1/3... Training Loss: 4.1808 Validation Loss 0.2947 Accuracy: 0.1945
Epoch: 1/3...
              Training Loss: 3.9133 Validation Loss 0.2940 Accuracy: 0.1792
Epoch: 1/3... Training Loss: 3.6330 Validation Loss 0.2437 Accuracy: 0.2171
Epoch: 1/3... Training Loss: 3.3009 Validation Loss 0.2300 Accuracy: 0.3992
Epoch: 1/3...
              Training Loss: 3.0025 Validation Loss 0.2107 Accuracy: 0.4416
              Training Loss: 2.7125 Validation Loss 0.1990 Accuracy: 0.4780
Epoch: 1/3...
Epoch: 1/3...
              Training Loss: 2.6167 Validation Loss 0.1802 Accuracy: 0.5393
              Training Loss: 2.3074 Validation Loss 0.1602 Accuracy: 0.5268
Epoch: 1/3...
Epoch: 2/3...
              Training Loss: 1.4120 Validation Loss 0.1578 Accuracy: 0.5436
Epoch: 2/3...
              Training Loss: 1.8301 Validation Loss 0.1377 Accuracy: 0.6312
Epoch: 2/3...
              Training Loss: 1.7262 Validation Loss 0.1141 Accuracy: 0.6727
              Training Loss: 1.6586 Validation Loss 0.1142 Accuracy: 0.6845
Epoch: 2/3...
Epoch: 2/3...
              Training Loss: 1.6039 Validation Loss 0.0801 Accuracy: 0.7111
              Training Loss: 1.4367 Validation Loss 0.0967 Accuracy: 0.7106
Epoch: 2/3...
              Training Loss: 1.3844 Validation Loss 0.0832 Accuracy: 0.7480
Epoch: 2/3...
              Training Loss: 1.2998 Validation Loss 0.0858 Accuracy: 0.7652
Epoch: 2/3...
Epoch: 2/3...
              Training Loss: 1.2583 Validation Loss 0.0845 Accuracy: 0.7501
Epoch: 2/3...
              Training Loss: 1.2112 Validation Loss 0.0632 Accuracy: 0.7540
              Training Loss: 0.4450 Validation Loss 0.0530 Accuracy: 0.7624
Epoch: 3/3...
Epoch: 3/3...
              Training Loss: 1.2025 Validation Loss 0.0782 Accuracy: 0.7647
Epoch: 3/3...
              Training Loss: 1.2152 Validation Loss 0.0594 Accuracy: 0.7949
Epoch: 3/3... Training Loss: 1.0412 Validation Loss 0.0410 Accuracy: 0.8333
Epoch: 3/3...
              Training Loss: 0.9909 Validation Loss 0.0702 Accuracy: 0.7976
Epoch: 3/3... Training Loss: 0.9343 Validation Loss 0.0627 Accuracy: 0.7980
Epoch: 3/3... Training Loss: 0.9919 Validation Loss 0.0756 Accuracy: 0.8236
Epoch: 3/3... Training Loss: 0.9605 Validation Loss 0.0589 Accuracy: 0.8301
              Training Loss: 0.9843 Validation Loss 0.0597 Accuracy: 0.8004
Epoch: 3/3...
Epoch: 3/3...
              Training Loss: 0.9107 Validation Loss 0.0565 Accuracy: 0.8340
```

2.1 Testing your network

It's good practice to test your trained network on test data, images the network has never seen either in training or validation. This will give you a good estimate for the model's performance on completely new images. Run the test images through the network and measure the accuracy, the same way you did validation. You should be able to reach around 70% accuracy on the test set if the model has been trained well.

```
In [20]: # TODO: Do validation on the test set, to achieve around 70% accuracy on test set
         test_loss = 0
         accuracy = 0
         total = 0
         correct = 0
         model.to('cuda')
         # with torch.no_grad():
         #
               for inputs, labels in testloader:
                   inputs, labels = inputs.to('cuda'), labels.to('cuda')
                   logps = model.forward(inputs)
         #
                   batch_loss = criterion(logps, labels)
         #
                   test_loss += batch_loss.item()
                 # Calculate accuracy
                   ps = torch.exp(outputs)
                   top_p, top_class = ps.topk(1, dim=1)
                   equals = top_class == labels.view(*top_class.shape)
                   accuracy += torch.mean(equals.type(torch.FloatTensor)).item()
         # print(f"Test accuracy of the network based on the test images: {accuracy/len(testload
         with torch.no_grad():
             for data in dataloaders[2]: # 2 = testing
                 images, labels = data
                 images, labels = images.to('cuda'), labels.to('cuda')
                 outputs = model(images)
                 _, predicted = torch.max(outputs.data, 1)
                 total += labels.size(0)
                 correct += (predicted == labels).sum().item()
         print('Accuracy of the network on the test images: %d %%' % float(100 * correct / total
Accuracy of the network on the test images: 80 %
```

```
In [21]: # To improve the Test accuracy on test set
     # 1. Experiment with Hyperparameters
     # 2. Experiment with models with higher accuracy (more parameters)
     # 3. Use test time augmentation
     # 4. Experiment with the training data augmentation
     # 5. Train till you get good train and validation accuracy
     # 6. Increase model input image size for training
```

2.2 Save the checkpoint

Now that your network is trained, save the model so you can load it later for making predictions. You probably want to save other things such as the mapping of classes to indices which you get from one of the image datasets: image_datasets['train'].class_to_idx. You can attach this to the model as an attribute which makes inference easier later on.

```
model.class_to_idx = image_datasets['train'].class_to_idx
```

Remember that you'll want to completely rebuild the model later so you can use it for inference. Make sure to include any information you need in the checkpoint. If you want to load the model and keep training, you'll want to save the number of epochs as well as the optimizer state, optimizer.state_dict. You'll likely want to use this trained model in the next part of the project, so best to save it now.

```
In [22]: # TODO: Save the checkpoint
         model.class_to_idx = image_datasets[0].class_to_idx
         checkpoint = {'input_size': 1024,
                       'output_size': 102,
                        'arch': 'densenet121',
                       'classifier' : classifier,
                       'learning_rate': 0.001,
                        'epochs': epochs,
                       'class_to_idx': model.class_to_idx,
                        'state_dict': model.state_dict(),
                        'optimizer': optimizer.state_dict(),
         torch.save(checkpoint, 'checkpoint.pth')
         # VGG16 method
         # model.class_to_idx = train_data.class_to_idx
         # torch.save({'input_size': 25088,
                        'output_size': 102,
         #
                        'structure': 'vgg16',
         #
                        'learning_rate': 0.001,
                        'classifier': model.classifier,
                        'epochs': epochs,
         #
                        'optimizer': optimizer.state_dict(),
                        'state_dict': model.state_dict(),
                        'class_to_idx': model.class_to_idx}, 'checkpoint.pth')
```

```
In [23]: # import torch
In [24]: # torch.__version__
In [25]: import torch
In [26]: torch.load('checkpoint.pth')
Out[26]: {'input_size': 1024,
          'output_size': 102,
          'arch': 'densenet121',
          'classifier': Sequential(
            (fc1): Linear(in_features=1024, out_features=500, bias=True)
            (dropout): Dropout(p=0.6)
            (relu1): ReLU()
            (fc2): Linear(in_features=500, out_features=102, bias=True)
            (output): LogSoftmax()
          ),
          'learning_rate': 0.001,
          'epochs': 3,
          'class_to_idx': {'1': 0,
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```

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```

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In [27]: import os
         os.getcwd()
Out[27]: '/home/workspace/aipnd-project'
```

2.3 Loading the checkpoint

At this point it's good to write a function that can load a checkpoint and rebuild the model. That way you can come back to this project and keep working on it without having to retrain the network.

```
In [28]: # TODO: Write a function that loads a checkpoint and rebuilds the model
```

```
checkpoint = torch.load(filepath)
             #learning_rate = checkpoint['learning_rate']
             #model = qetattr(torchvision.models, checkpoint['structure'])(pretrained = True)
             #model.epochs = checkpoint['epochs']
             #model.load_state_dict(checkpoint['state_dict'])
             \#model.class\_to\_idx = checkpoint['class\_to\_idx']
             #op timizer.load_state_dict(checkpoint['optimizer'])
             model = getattr(torchvision.models, checkpoint['arch'])(pretrained=True)
             model.classifier = checkpoint['classifier']
             learning_rate = checkpoint['learning_rate']
             model.epochs = checkpoint['epochs']
             model.optimizer = checkpoint['optimizer']
             model.load_state_dict(checkpoint['state_dict'])
             model.class_to_idx = checkpoint['class_to_idx']
             return model
         load_checkpoint('checkpoint.pth')
         print(model)
         # VGG16 method
         # def load_checkpoint(filepath):
               checkpoint = torch.load(filepath)
               if checkpoint['structure'] == 'vgg16':
         #
                   model = models.vgg16(pretrained = True)
                   for param in model.parameters():
                       param.requires_grad = False
         #
                   model.classifier = checkpoint['classifier']
                   model.load_state_dict(checkpoint['state_dict'])
               return model
         # model = load_checkpoint('checkpoint.pth')
         # print(model)
/opt/conda/lib/python3.6/site-packages/torchvision-0.2.1-py3.6.egg/torchvision/models/densenet.p
DenseNet(
  (features): Sequential(
    (conv0): Conv2d(3, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=False)
    (norm0): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
    (relu0): ReLU(inplace)
```

def load_checkpoint(filepath):

```
(pool0): MaxPool2d(kernel_size=3, stride=2, padding=1, dilation=1, ceil_mode=False)
(denseblock1): _DenseBlock(
 (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
   (relu1): ReLU(inplace)
   (conv1): Conv2d(64, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
   (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
   (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
 (denselayer2): _DenseLayer(
   (norm1): BatchNorm2d(96, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
   (relu1): ReLU(inplace)
   (conv1): Conv2d(96, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
   (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
   (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
 (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu1): ReLU(inplace)
   (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
   (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
   (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 (denselayer4): _DenseLayer(
   (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu1): ReLU(inplace)
   (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
   (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
 (denselayer5): _DenseLayer(
   (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu1): ReLU(inplace)
   (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
   (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
   (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
 (denselayer6): _DenseLayer(
   (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu1): ReLU(inplace)
   (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
   (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
   (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
(transition1): _Transition(
  (norm): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (relu): ReLU(inplace)
  (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock2): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(160, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(160, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(192, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(192, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  (denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(224, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(224, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer5): _DenseLayer(
    (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
```

```
)
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer12): _DenseLayer(
    (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
)
(transition2): _Transition(
  (norm): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (relu): ReLU(inplace)
  (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock3): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(288, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(288, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(320, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(320, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer4): _DenseLayer(
    (norm1): BatchNorm2d(352, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(352, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(384, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(384, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(416, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(416, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(448, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(448, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(480, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(480, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer13): _DenseLayer(
  (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer14): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer15): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer16): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

```
(denselayer17): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer18): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer19): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer20): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer21): _DenseLayer(
  (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer22): _DenseLayer(
  (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)

)

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer23): _DenseLayer(
    (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer24): _DenseLayer(
    (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
 )
(transition3): _Transition(
  (norm): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (relu): ReLU(inplace)
  (conv): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (pool): AvgPool2d(kernel_size=2, stride=2, padding=0)
(denseblock4): _DenseBlock(
  (denselayer1): _DenseLayer(
    (norm1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer2): _DenseLayer(
    (norm1): BatchNorm2d(544, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(544, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
    (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
  )
  (denselayer3): _DenseLayer(
    (norm1): BatchNorm2d(576, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu1): ReLU(inplace)
    (conv1): Conv2d(576, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
    (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer4): _DenseLayer(
  (norm1): BatchNorm2d(608, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(608, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer5): _DenseLayer(
  (norm1): BatchNorm2d(640, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(640, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer6): _DenseLayer(
  (norm1): BatchNorm2d(672, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(672, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer7): _DenseLayer(
  (norm1): BatchNorm2d(704, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(704, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer8): _DenseLayer(
  (norm1): BatchNorm2d(736, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(736, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer9): _DenseLayer(
  (norm1): BatchNorm2d(768, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(768, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer10): _DenseLayer(
  (norm1): BatchNorm2d(800, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(800, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer11): _DenseLayer(
  (norm1): BatchNorm2d(832, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(832, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer12): _DenseLayer(
  (norm1): BatchNorm2d(864, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(864, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
(denselayer13): _DenseLayer(
  (norm1): BatchNorm2d(896, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(896, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer14): _DenseLayer(
  (norm1): BatchNorm2d(928, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(928, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
  (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
)
(denselayer15): _DenseLayer(
  (norm1): BatchNorm2d(960, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu1): ReLU(inplace)
  (conv1): Conv2d(960, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
  (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
  (relu2): ReLU(inplace)
```

```
(conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
      )
      (denselayer16): _DenseLayer(
        (norm1): BatchNorm2d(992, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
        (relu1): ReLU(inplace)
        (conv1): Conv2d(992, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (norm2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True
        (relu2): ReLU(inplace)
        (conv2): Conv2d(128, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
      )
    )
    (norm5): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (classifier): Sequential(
    (fc1): Linear(in_features=1024, out_features=500, bias=True)
    (dropout): Dropout(p=0.6)
    (relu1): ReLU()
    (fc2): Linear(in_features=500, out_features=102, bias=True)
    (output): LogSoftmax()
  )
)
```

3 Inference for classification

Now you'll write a function to use a trained network for inference. That is, you'll pass an image into the network and predict the class of the flower in the image. Write a function called predict that takes an image and a model, then returns the top *K* most likely classes along with the probabilities. It should look like

```
probs, classes = predict(image_path, model)
print(probs)
print(classes)
> [ 0.01558163   0.01541934   0.01452626   0.01443549   0.01407339]
> ['70', '3', '45', '62', '55']
```

First you'll need to handle processing the input image such that it can be used in your network.

3.1 Image Preprocessing

You'll want to use PIL to load the image (documentation). It's best to write a function that preprocesses the image so it can be used as input for the model. This function should process the images in the same manner used for training.

First, resize the images where the shortest side is 256 pixels, keeping the aspect ratio. This can be done with the thumbnail or resize methods. Then you'll need to crop out the center 224x224 portion of the image.

Color channels of images are typically encoded as integers 0-255, but the model expected floats 0-1. You'll need to convert the values. It's easiest with a Numpy array, which you can get from a PIL image like so np_image = np.array(pil_image).

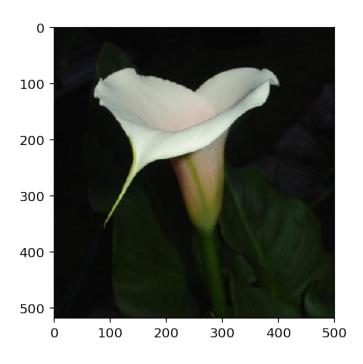
As before, the network expects the images to be normalized in a specific way. For the means, it's [0.485, 0.456, 0.406] and for the standard deviations [0.229, 0.224, 0.225]. You'll want to subtract the means from each color channel, then divide by the standard deviation.

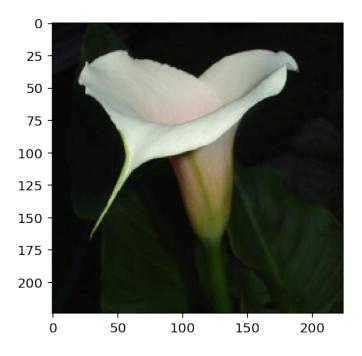
And finally, PyTorch expects the color channel to be the first dimension but it's the third dimension in the PIL image and Numpy array. You can reorder dimensions using ndarray.transpose. The color channel needs to be first and retain the order of the other two dimensions.

```
In [29]: def process_image(image):
             ''' Scales, crops, and normalizes a PIL image for a PyTorch model,
                 returns an Numpy array
            # TODO: Process a PIL image for use in a PyTorch model
             size = [0, 0]
             if image.size[0] > image.size[1]:
                 size = [image.size[0], 256]
             else:
                 size = [256, image.size[1]]
             image.thumbnail(size, Image.ANTIALIAS)
             w, h = image.size
             1 = (256 - 224)/2
             t = (256 - 224)/2
             r = (256 + 224)/2
             b = (256 + 224)/2
             image = image.crop((1, t, r, b))
             image = np.array(image)
             image = image/255.
             mean = np.array([0.485, 0.456, 0.406])
             sd = np.array([0.229, 0.224, 0.225])
             image = ((image - mean) / sd)
             image = np.transpose(image, (2, 0, 1))
             return image
               # TODO: Process a PIL image for use in a PyTorch model
               img_pil = Image.open(image)
```

To check your work, the function below converts a PyTorch tensor and displays it in the note-book. If your process_image function works, running the output through this function should return the original image (except for the cropped out portions).

```
In [30]: ## Standard codes provided by Udacity
         def imshow(image, ax=None, title=None):
             """Imshow for Tensor."""
             if ax is None:
                 fig, ax = plt.subplots()
             # PyTorch tensors assume the color channel is the first dimension
             # but matplotlib assumes is the third dimension
             image = image.transpose((1, 2, 0))
             # Undo preprocessing
             mean = np.array([0.485, 0.456, 0.406])
             std = np.array([0.229, 0.224, 0.225])
             image = std * image + mean
             # Image needs to be clipped between 0 and 1 or it looks like noise when displayed
             image = np.clip(image, 0, 1)
             ax.imshow(image)
             return ax
In [31]: # imshow(process_image('./flowers/test/20/image_04912.jpg'))
         img_path = 'flowers/test/20/image_04912.jpg'
         with Image.open(img_path) as image: # original
             plt.imshow(image)
         with Image.open(img_path) as image: #processed with functions
             imshow(process_image(image))
```





3.2 Class Prediction

Once you can get images in the correct format, it's time to write a function for making predictions with your model. A common practice is to predict the top 5 or so (usually called top-*K*) most

probable classes. You'll want to calculate the class probabilities then find the *K* largest values.

To get the top K largest values in a tensor use x.topk(k). This method returns both the highest k probabilities and the indices of those probabilities corresponding to the classes. You need to convert from these indices to the actual class labels using $class_to_idx$ which hopefully you added to the model or from an ImageFolder you used to load the data (Section 2.2). Make sure to invert the dictionary so you get a mapping from index to class as well.

Again, this method should take a path to an image and a model checkpoint, then return the probabilities and classes.

```
probs, classes = predict(image_path, model)
print(probs)
print(classes)
> [ 0.01558163  0.01541934  0.01452626  0.01443549  0.01407339]
> ['70', '3', '45', '62', '55']
In [32]: model.class_to_idx = image_datasets[0].class_to_idx # 0 = train
         ctx = model.class_to_idx
         def predict(image_path, model, topk=5):
             ''' \it Predict the class (or classes) of an image using a trained deep learning model.
             # TODO: Implement the code to predict the class from an image file
             model.to('cuda')
             img_torch = Image.open(image_path) # process the image, from reviewer advice
             img_torch = process_image(img_torch)
             img_torch = torch.from_numpy(img_torch)
             img_torch = img_torch.unsqueeze_(0)
             img_torch = img_torch.float()
             with torch.no_grad():
                 output = model.forward(img_torch.cuda()) # use cuda
             probability = F.softmax(output.data,dim=1) # use F
             probs = np.array(probability.topk(topk)[0][0])
             index_to_class = {val: key for key, val in model.class_to_idx.items()} # from review
             top_classes = [np.int(index_to_class[each]) for each in np.array(probability.topk(t
             return probs, top_classes
         #
               model.eval()
               img = process_image(image_path).numpy()
               img = torch.from_numpy(np.array([img])).float()
               with torch.no_grad():
```

3.3 Sanity Checking

Now that you can use a trained model for predictions, check to make sure it makes sense. Even if the testing accuracy is high, it's always good to check that there aren't obvious bugs. Use matplotlib to plot the probabilities for the top 5 classes as a bar graph, along with the input image. It should look like this:

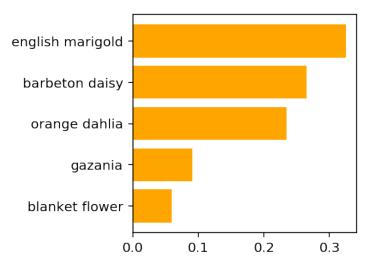
You can convert from the class integer encoding to actual flower names with the cat_to_name.json file (should have been loaded earlier in the notebook). To show a PyTorch tensor as an image, use the imshow function defined above.

```
In [34]: # TODO: Display an image along with the top 5 classes
         ### TEST 1: Predict Barbeton Daisy
         plt.figure(figsize=(3,3))
         # plt.subplot(211)
         # plt.rcdefaults()
         # fig, ax = plt.subplots()
         # Define image path
         path = ('flowers/test/5/image_05159.jpg') # barbeton daisy test
         # index = 1
         # path = test_dir + '/9/image_06410.jpg'
         # probabilities = predict(path, model)
         # image = process_image(path)
         probs, classes = predict(path, model)
         image = process_image(Image.open(path)) # To open PIL first
         max_index = classes[0]
         ax1 = imshow(image, ax = plt)
         ax1.axis('off')
         ax1.title(cat_to_name[str(max_index)])
         ax1.show()
```

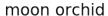
```
# following graph is adapted from https://matplotlib.org/gallery/lines_bars_and_markers
plt.figure(figsize=(3,3))
names = [cat_to_name[str(index)] for index in classes]
y_pos = np.arange(len(names))
probability = np.array(probs)
plt.barh(y_pos, probability, align='center',
        color='orange')
plt.yticks(y_pos, names)
plt.gca().invert_yaxis() # labels read from top-to-bottom
# a = np.array(probabilities[0][0])
\# b = [cat_to_name[str(index+1)] for index in np.array(probabilities[1][0])]
# fig, ax2 = plt.subplots(figsize=(8,3))
# y_pos = np.arange(5)
\# ax2.set\_yticks(y\_pos)
# ax2.set_yticklabels(b)
# ax2.set_xlabel('Probability')
# ax2.invert_yaxis()
\# ax2.barh(y_pos, a)
# plt.show()
```

english marigold

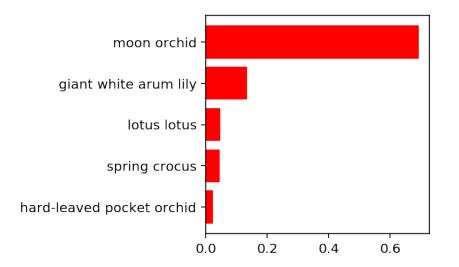




```
In [35]: # TODO: Display an image along with the top 5 classes
         ### TEST 2: Predict Moon Orchid
         plt.figure(figsize=(3,3))
         path = ('flowers/test/7/image_08099.jpg') # Moon Orchid test
         probs, classes = predict(path, model)
         image = process_image(Image.open(path)) # To open PIL first
         max_index = classes[0]
         ax1 = imshow(image, ax = plt)
         ax1.axis('off')
         ax1.title(cat_to_name[str(max_index)])
         ax1.show()
         # following graph is adapted from https://matplotlib.org/gallery/lines_bars_and_markers
         plt.figure(figsize=(3,3))
         names = [cat_to_name[str(index)] for index in classes]
         y_pos = np.arange(len(names))
         probability = np.array(probs)
         plt.barh(y_pos, probability, align='center',
                 color='red')
         plt.yticks(y_pos, names)
         plt.gca().invert_yaxis() # So that labels read from top-to-bottom
```







In [36]: # TODO: Display an image along with the top 5 classes

TEST 3: Predict Globe Flower
plt.figure(figsize=(3,3))
path = ('flowers/test/16/image_06657.jpg') # Globe Flower test

probs, classes = predict(path, model)
image = process_image(Image.open(path)) # To open PIL first
max_index = classes[0]

globe-flower



