

2. Define the Network Architecture

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0.1 Define the Convolutional Neural Network

After you've looked at the data you're working with and, in this case, know the shapes of the images and of the keypoints, you are ready to define a convolutional neural network that can *learn* from this data.

In this notebook and in `models.py`, you will: 1. Define a CNN with images as input and keypoints as output 2. Construct the transformed FaceKeypointsDataset, just as before 3. Train the CNN on the training data, tracking loss 4. See how the trained model performs on test data 5. If necessary, modify the CNN structure and model hyperparameters, so that it performs *well* *

* What does *well* mean?

“Well” means that the model’s loss decreases during training **and**, when applied to test image data, the model produces keypoints that closely match the true keypoints of each face. And you’ll see examples of this later in the notebook.

0.2 CNN Architecture

Recall that CNN’s are defined by a few types of layers: * Convolutional layers * Maxpooling layers * Fully-connected layers

You are required to use the above layers and encouraged to add multiple convolutional layers and things like dropout layers that may prevent overfitting. You are also encouraged to look at literature on keypoint detection, such as [this paper](#), to help you determine the structure of your network.

0.2.1 TODO: Define your model in the provided file `models.py` file

This file is mostly empty but contains the expected name and some TODO’s for creating your model.

0.3 PyTorch Neural Nets

To define a neural network in PyTorch, you define the layers of a model in the function `__init__` and define the feedforward behavior of a network that employs those initialized layers in the function `forward`, which takes in an input image tensor, `x`. The structure of this Net class is shown below and left for you to fill in.

Note: During training, PyTorch will be able to perform backpropagation by keeping track of the network's feedforward behavior and using autograd to calculate the update to the weights in the network.

Define the Layers in `__init__` As a reminder, a conv/pool layer may be defined like this (in `__init__`):

```
# 1 input image channel (for grayscale images), 32 output channels/feature maps, 3x3 square conv
self.conv1 = nn.Conv2d(1, 32, 3)

# maxpool that uses a square window of kernel_size=2, stride=2
self.pool = nn.MaxPool2d(2, 2)
```

Refer to Layers in `forward` Then referred to in the `forward` function like this, in which the conv1 layer has a ReLu activation applied to it before maxpooling is applied:

```
x = self.pool(F.relu(self.conv1(x)))
```

Best practice is to place any layers whose weights will change during the training process in `__init__` and refer to them in the `forward` function; any layers or functions that always behave in the same way, such as a pre-defined activation function, should appear *only* in the `forward` function.

Why `models.py` You are tasked with defining the network in the `models.py` file so that any models you define can be saved and loaded by name in different notebooks in this project directory. For example, by defining a CNN class called `Net` in `models.py`, you can then create that same architecture in this and other notebooks by simply importing the class and instantiating a model:

```
from models import Net
net = Net()
```

```
[1]: # load the data if you need to; if you have already loaded the data, you may
    ↪comment this cell out
# -- DO NOT CHANGE THIS CELL -- #
!mkdir /data
!wget -P /data/ https://s3.amazonaws.com/video.udacity-data.com/topher/2018/May/
    ↪5ae1b91_train-test-data/train-test-data.zip
!unzip -n /data/train-test-data.zip -d /data
```

```
mkdir: cannot create directory '/data': File exists
--2024-05-03 01:00:54-- https://s3.amazonaws.com/video.udacity-
data.com/topher/2018/May/5ae1b91_train-test-data/train-test-data.zip
Resolving s3.amazonaws.com (s3.amazonaws.com)... 54.231.203.96, 52.217.116.232,
16.182.34.0, ...
Connecting to s3.amazonaws.com (s3.amazonaws.com)|54.231.203.96|:443...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 338613624 (323M) [application/zip]
Saving to: '/data/train-test-data.zip.2'
```

```
train-test-data.zip 100%[=====>] 322.93M 28.2MB/s in 13s
```

```
2024-05-03 01:01:07 (25.4 MB/s) - '/data/train-test-data.zip.2' saved
[338613624/338613624]
```

```
Archive: /data/train-test-data.zip
```

Note: Workspaces automatically close connections after 30 minutes of inactivity (including inactivity while training!). Use the code snippet below to keep your workspace alive during training. (The `active_session` context manager is imported below.)

```
from workspace_utils import active_session
```

```
with active_session():
    train_model(num_epochs)
```

```
[2]: # import the usual resources
import matplotlib.pyplot as plt
import numpy as np

# import utilities to keep workspaces alive during model training
from workspace_utils import active_session

# watch for any changes in model.py, if it changes, re-load it automatically
%load_ext autoreload
%autoreload 2
```

```
[3]: ## TODO: Define the Net in models.py

import torch
import torch.nn as nn
import torch.nn.functional as F

## TODO: Once you've define the network, you can instantiate it
# one example conv layer has been provided for you
from models import Net

net = Net()
print(net)
```

```
Net(
  (conv1): Sequential(
    (0): Conv2d(1, 32, kernel_size=(3, 3), stride=(1, 1))
    (1): ELU(alpha=1.0)
    (2): Dropout(p=0.1, inplace=False)
    (3): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceiling_mode=False)
  )
)
```

```

(conv2): Sequential(
  (0): Conv2d(32, 64, kernel_size=(3, 3), stride=(1, 1))
  (1): ELU(alpha=1.0)
  (2): Dropout(p=0.2, inplace=False)
  (3): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
)
(conv3): Sequential(
  (0): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1))
  (1): ELU(alpha=1.0)
  (2): Dropout(p=0.3, inplace=False)
  (3): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
)
(conv4): Sequential(
  (0): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1))
  (1): ELU(alpha=1.0)
  (2): Dropout(p=0.4, inplace=False)
  (3): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
)
(fc1): Sequential(
  (0): Flatten()
  (1): Linear(in_features=36864, out_features=1000, bias=True)
  (2): ELU(alpha=1.0)
  (3): Dropout(p=0.5, inplace=False)
)
(fc2): Sequential(
  (0): Linear(in_features=1000, out_features=1000, bias=True)
  (1): Dropout(p=0.6, inplace=False)
)
(fc3): Sequential(
  (0): Linear(in_features=1000, out_features=136, bias=True)
  (1): CustomizedSigmoid()
)
)

```

0.4 Transform the dataset

To prepare for training, create a transformed dataset of images and keypoints.

0.4.1 TODO: Define a data transform

In PyTorch, a convolutional neural network expects a torch image of a consistent size as input. For efficient training, and so your model's loss does not blow up during training, it is also suggested that you normalize the input images and keypoints. The necessary transforms have been defined in `data_load.py` and you **do not** need to modify these; take a look at this file (you'll see the same transforms that were defined and applied in Notebook 1).

To define the data transform below, use a [composition](#) of:

1. Rescaling and/or cropping the data, such that you are left with a square image (the suggested size is 224x224px)
2. Normalizing the images and keypoints; turning each RGB image into a grayscale image with a color range of $[0, 1]$ and transforming the given keypoints into a range of $[-1, 1]$
3. Turning these images and keypoints into Tensors

These transformations have been defined in `data_load.py`, but it's up to you to call them and create a `data_transform` below. **This transform will be applied to the training data and, later, the test data.** It will change how you go about displaying these images and keypoints, but these steps are essential for efficient training.

As a note, should you want to perform data augmentation (which is optional in this project), and randomly rotate or shift these images, a square image size will be useful; rotating a 224x224 image by 90 degrees will result in the same shape of output.

```
[4]: from torch.utils.data import Dataset, DataLoader
from torchvision import transforms, utils

# the dataset we created in Notebook 1 is copied in the helper file `data_load.py`
from data_load import FacialKeypointsDataset
# the transforms we defined in Notebook 1 are in the helper file `data_load.py`
from data_load import Rescale, RandomCrop, Normalize, ToTensor, ConvertToGray

## TODO: define the data_transform using transforms.Compose([all tx's, . , .])
# order matters! i.e. rescaling should come before a smaller crop
# data_transform = None
data_transform = transforms.Compose([
    # Rescale(250),
    # RandomCrop(224),
    # Rescale(250),
    # Rescale(300),
    # Rescale(264),
    Rescale(260),
    RandomCrop(224),
    # Normalize(), ### The dataset is already normalized.
    ConvertToGray(),
    ToTensor()
])

# testing that you've defined a transform
assert(data_transform is not None), 'Define a data_transform'
```

```
[5]: # create the transformed dataset
transformed_dataset = FacialKeypointsDataset(csv_file='/data/
↳ training_frames_keypoints.csv',
```

```

root_dir='/data/training/',
transform=data_transform)

print('Number of training images: ', len(transformed_dataset))

# iterate through the transformed dataset and print some stats about the first
↳ few samples
for i in range(4):
    sample = transformed_dataset[i]
    print(i, sample['image'].size(), sample['keypoints'].size())

```

```

Number of training images: 3462
0 torch.Size([1, 224, 224]) torch.Size([68, 2])
1 torch.Size([1, 224, 224]) torch.Size([68, 2])
2 torch.Size([1, 224, 224]) torch.Size([68, 2])
3 torch.Size([1, 224, 224]) torch.Size([68, 2])

```

0.5 Batching and loading data

Next, having defined the transformed dataset, we can use PyTorch's `DataLoader` class to load the training data in batches of whatever size as well as to shuffle the data for training the model. You can read more about the parameters of the `DataLoader`, in [this documentation](#).

Batch size Decide on a good batch size for training your model. Try both small and large batch sizes and note how the loss decreases as the model trains. Too large a batch size may cause your model to crash and/or run out of memory while training.

Note for Windows users: Please change the `num_workers` to 0 or you may face some issues with your `DataLoader` failing.

```

[6]: # load training data in batches
# batch_size_training = 10
# batch_size_training = 16
# batch_size_training = 24
# batch_size_training = 30
# batch_size_training = 32 #####
# batch_size_training = 40
# batch_size_training = 50
# batch_size_training = 56
# batch_size_training = 58
batch_size_training = 60
# batch_size_training = 64
# batch_size_training = 72
# batch_size_training = 128

# print("dir(transformed_dataset) = "+str(dir(transformed_dataset)))
# transformed_dataset?

```

```

# transformed_dataset_adjusted = transformed_dataset[0:
    ↪int(len(transformed_dataset)/batch_size_training)*batch_size_training]

# train_loader = DataLoader(transformed_dataset,
#                             batch_size=batch_size_training,
#                             shuffle=True,
#                             num_workers=4)

# train_loader = DataLoader(transformed_dataset,
#                             batch_size=batch_size_training,
#                             shuffle=True,
#                             num_workers=1)

train_loader = DataLoader(transformed_dataset,
                           batch_size=batch_size_training,
                           shuffle=True,
                           num_workers=0)

```

0.6 Before training

Take a look at how this model performs before it trains. You should see that the keypoints it predicts start off in one spot and don't match the keypoints on a face at all! It's interesting to visualize this behavior so that you can compare it to the model after training and see how the model has improved.

Load in the test dataset The test dataset is one that this model has *not* seen before, meaning it has not trained with these images. We'll load in this test data and before and after training, see how your model performs on this set!

To visualize this test data, we have to go through some un-transformation steps to turn our images into python images from tensors and to turn our keypoints back into a recognizable range.

```

[7]: # load in the test data, using the dataset class
# AND apply the data_transform you defined above

# create the test dataset
test_dataset = FacialKeypointsDataset(csv_file='/data/test_frames_keypoints.
    ↪CSV',
                                     root_dir='/data/test/',
                                     transform=data_transform)

print('Number of test images: ', len(test_dataset))

```

Number of test images: 770

```
[8]: # load test data in batches
# batch_size_test = 10
# batch_size_test = 16
# batch_size_test = 24
# batch_size_test = 30
# batch_size_test = 32 #####
# batch_size_test = 40
# batch_size_test = 50
# batch_size_test = 56
# batch_size_test = 58
batch_size_test = 60
# batch_size_test = 64
# batch_size_test = 72
# batch_size_test = 128

# test_loader = DataLoader(test_dataset,
#                           batch_size=batch_size_test,
#                           shuffle=True,
#                           num_workers=4)

# test_loader = DataLoader(test_dataset,
#                           batch_size=batch_size_test,
#                           shuffle=True,
#                           num_workers=1)

test_loader = DataLoader(test_dataset,
                        batch_size=batch_size_test,
                        shuffle=True,
                        num_workers=0)
```

0.7 Apply the model on a test sample

To test the model on a test sample of data, you have to follow these steps: 1. Extract the image and ground truth keypoints from a sample 2. Wrap the image in a Variable, so that the net can process it as input and track how it changes as the image moves through the network. 3. Make sure the image is a FloatTensor, which the model expects. 4. Forward pass the image through the net to get the predicted, output keypoints.

This function test how the network performs on the first batch of test data. It returns the images, the transformed images, the predicted keypoints (produced by the model), and the ground truth keypoints.

```
[9]: # test the model on a batch of test images

#####
#### Instructions on how to use GPU on Pytorch, using CUDA, was obtained from
    ↳ the link below :
#### https://www.run.ai/guides/gpu-deep-learning/pytorch-gpu
```



```
#####

if torch.cuda.is_available():
    dev = "cuda:0"
else:
    dev = "cpu"
print("torch.cuda.is_available() = "+str(torch.cuda.is_available()))
device = torch.device(dev)

net = net.to(device)

#####
#####
#####

def net_sample_output():

    # iterate through the test dataset
    for i, sample in enumerate(test_loader):

        # get sample data: images and ground truth keypoints
        images = sample['image']
        key_pts = sample['keypoints']

        # convert images to FloatTensors
        images = images.type(torch.FloatTensor)

        images = images.to(device)

        # forward pass to get net output
        output_pts = net(images)

        # reshape to batch_size x 68 x 2 pts
        output_pts = output_pts.view(output_pts.size()[0], 68, -1)
#         output_pts = output_pts.view(batch_size_test, 68, 2)
#         output_pts = output_pts.view(output_pts.size()[0], 68, 2)

        # break after first image is tested
        if i == 0:
            return images, output_pts, key_pts
```

```
torch.cuda.is_available() = True
```

Debugging tips If you get a size or dimension error here, make sure that your network outputs the expected number of keypoints! Or if you get a Tensor type error, look into changing the above code that casts the data into float types: `images = images.type(torch.FloatTensor)`.

```
[10]: # call the above function
# returns: test images, test predicted keypoints, test ground truth keypoints
test_images, test_outputs, gt_pts = net_sample_output()

# print out the dimensions of the data to see if they make sense
print(test_images.data.size())
print(test_outputs.data.size())
print(gt_pts.size())
```

```
torch.Size([60, 1, 224, 224])
torch.Size([60, 68, 2])
torch.Size([60, 68, 2])
```

0.8 Visualize the predicted keypoints

Once we’ve had the model produce some predicted output keypoints, we can visualize these points in a way that’s similar to how we’ve displayed this data before, only this time, we have to “un-transform” the image/keypoint data to display it.

Note that I’ve defined a *new* function, `show_all_keypoints` that displays a grayscale image, its predicted keypoints and its ground truth keypoints (if provided).

```
[11]: def show_all_keypoints(image, predicted_key_pts, gt_pts=None):
    """Show image with predicted keypoints"""
    # image is grayscale
    plt.imshow(image, cmap='gray')
    plt.scatter(predicted_key_pts[:, 0], predicted_key_pts[:, 1], s=20,
↪marker='.', c='m')
    # plot ground truth points as green pts
    if gt_pts is not None:
        plt.scatter(gt_pts[:, 0], gt_pts[:, 1], s=20, marker='.', c='g')
```

Un-transformation Next, you’ll see a helper function. `visualize_output` that takes in a batch of images, predicted keypoints, and ground truth keypoints and displays a set of those images and their true/predicted keypoints.

This function’s main role is to take batches of image and keypoint data (the input and output of your CNN), and transform them into numpy images and un-normalized keypoints (x, y) for normal display. The un-transformation process turns keypoints and images into numpy arrays from Tensors *and* it undoes the keypoint normalization done in the `Normalize()` transform; it’s assumed that you applied these transformations when you loaded your test data.

```
[12]: # visualize the output
# by default this shows a batch of 10 images
def visualize_output(test_images, test_outputs, gt_pts=None, batch_size=10):

    for i in range(batch_size):
        plt.figure(figsize=(20,10))
```

```

ax = plt.subplot(1, batch_size, i+1)

# un-transform the image data

if (dev == "cuda:0"):
    # Move image to CPU before conversion to numpy
    image = test_images[i].data.cpu() # Move to CPU first
else:
    image = test_images[i].data # get the image from it's Variable
    ↪ wrapper
    image = image.numpy() # convert to numpy array from a Tensor
    image = np.transpose(image, (1, 2, 0)) # transpose to go from torch
    ↪ to numpy image
#     print("image.shape = "+str(image.shape))

# un-transform the predicted key_pts data
if (dev == "cuda:0"):
    predicted_key_pts = test_outputs[i].data.cpu()
else:
    predicted_key_pts = test_outputs[i].data
predicted_key_pts = predicted_key_pts.numpy()
# undo normalization of keypoints
#     predicted_key_pts = predicted_key_pts*50.0+100

# plot ground truth points for comparison, if they exist
ground_truth_pts = None
if gt_pts is not None:
    ground_truth_pts = gt_pts[i]
#     ground_truth_pts = ground_truth_pts*50.0+100 ### I did not need
    ↪ to normalize the loaded gt data

# call show_all_keypoints
show_all_keypoints(np.squeeze(image), predicted_key_pts,
    ↪ ground_truth_pts)

plt.axis('off')

plt.show()

# call it
visualize_output(test_images, test_outputs, gt_pts)

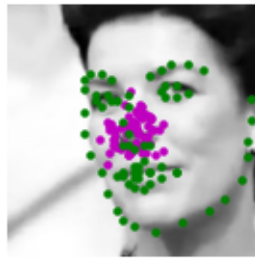
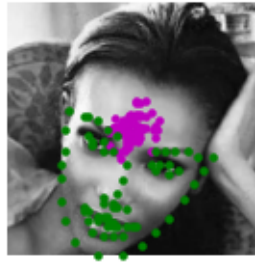
```

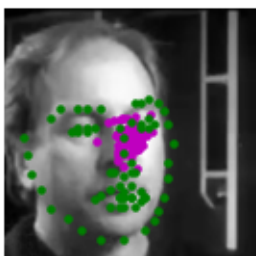
```

/usr/local/lib/python3.10/dist-packages/numpy/core/getlimits.py:518:
UserWarning: The value of the smallest subnormal for <class 'numpy.float64'>
type is zero.
    setattr(self, word, getattr(machar, word).flat[0])
/usr/local/lib/python3.10/dist-packages/numpy/core/getlimits.py:89: UserWarning:

```

The value of the smallest subnormal for <class 'numpy.float64'> type is zero.
return self._float_to_str(self.smallest_subnormal)







0.9 Training

Loss function Training a network to predict keypoints is different than training a network to predict a class; instead of outputting a distribution of classes and using cross entropy loss, you may want to choose a loss function that is suited for regression, which directly compares a predicted value and target value. Read about the various kinds of loss functions (like MSE or L1/SmoothL1 loss) in [this documentation](#).

0.9.1 TODO: Define the loss and optimization

Next, you'll define how the model will train by deciding on the loss function and optimizer.

```
[13]: ## TODO: Define the loss and optimization
import torch.optim as optim

# criterion = None
criterion = nn.SmoothL1Loss()

# optimizer = None
# stochastic gradient descent with a small learning rate AND some momentum
# optimizer = optim.SGD(net.parameters(), lr=0.001, momentum=0.9)
# optimizer = optim.SGD(net.parameters(), lr=0.01, momentum=0.9)
# optimizer = optim.SGD(net.parameters(), lr=0.0001, momentum=0.9)
```

```

# optimizer = optim.Adam(net.parameters(), lr=0.0001, betas=(0.9, 0.999),
    ↪eps=1e-08, weight_decay=0.05, amsgrad=False)
# optimizer = optim.Adam(net.parameters(), lr=0.00005, betas=(0.9, 0.999),
    ↪eps=1e-08)
# optimizer = optim.Adam(net.parameters(), lr=0.001, betas=(0.9, 0.999),
    ↪eps=1e-08)
optimizer = optim.Adam(net.parameters(), lr=0.0001, betas=(0.9, 0.999),
    ↪eps=1e-08) ##### PAPER
# optimizer = optim.Adam(net.parameters(), lr=0.00001, betas=(0.9, 0.999),
    ↪eps=1e-08)
# optimizer = optim.Adam(net.parameters(), lr=0.0002, betas=(0.9, 0.999),
    ↪eps=1e-08)
# optimizer = optim.Adam(net.parameters(), lr=0.0004, betas=(0.9, 0.999),
    ↪eps=1e-08)
# optimizer = optim.Adam(net.parameters(), lr=0.0001)
# optimizer = optim.Adam(net.parameters(), lr=0.001)
# optimizer = optim.Adam(net.parameters(), lr=0.01)
# optimizer = optim.RMSprop(net.parameters(), lr=0.001, alpha=0.99, momentum=0.
    ↪9)

```

0.10 Training and Initial Observation

Now, you'll train on your batched training data from `train_loader` for a number of epochs.

To quickly observe how your model is training and decide on whether or not you should modify its structure or hyperparameters, you're encouraged to start off with just one or two epochs at first. As you train, note how the model's loss behaves over time: does it decrease quickly at first and then slow down? Does it take a while to decrease in the first place? What happens if you change the batch size of your training data or modify your loss function? etc.

Use these initial observations to make changes to your model and decide on the best architecture before you train for many epochs and create a final model.

[14]:

```

def train_net(n_epochs):

    # prepare the net for training
    net.train()

    for epoch in range(n_epochs): # loop over the dataset multiple times

        running_loss = 0.0

        # train on batches of data, assumes you already have train_loader
        for batch_i, data in enumerate(train_loader):

```

```

# get the input images and their corresponding labels
images = data['image']
key_pts = data['keypoints']

# flatten pts
key_pts = key_pts.view(key_pts.size(0), -1)

# convert variables to floats for regression loss
key_pts = key_pts.type(torch.FloatTensor)
images = images.type(torch.FloatTensor)

key_pts = key_pts.to(device)
images = images.to(device)

# forward pass to get outputs
output_pts = net(images)

# calculate the loss between predicted and target keypoints
loss = criterion(output_pts, key_pts)

# zero the parameter (weight) gradients
optimizer.zero_grad()

# backward pass to calculate the weight gradients
loss.backward()

# update the weights
optimizer.step()

# print loss statistics
running_loss += loss.item()
if batch_i % 10 == 9:    # print every 10 batches
    print('Epoch: {}, Batch: {}, Avg. Loss: {}'.format(epoch + 1, ↵
↵batch_i+1, running_loss/10))
    running_loss = 0.0

print('Finished Training')

```

[15]: !free -h

| | total | used | free | shared | buff/cache | available |
|-------|-------|-------|-------|--------|------------|-----------|
| Mem: | 15Gi | 2.3Gi | 8.5Gi | 80Mi | 4.6Gi | 12Gi |
| Swap: | 14Gi | 0B | 14Gi | | | |

[16]: # train your network
n_epochs = 1 # start small, and increase when you've decided on your model ↵
↵structure and hyperparams


```

# n_epochs = 15
# n_epochs = 18
# n_epochs = 90
# n_epochs = 40
# n_epochs = 50
# n_epochs = 150
# n_epochs = 300
# n_epochs = 600
# n_epochs = 1200
# n_epochs = 1500
# n_epochs = 2000
# n_epochs = 3000
n_epochs = 5000

# this is a Workspaces-specific context manager to keep the connection
# alive while training your model, not part of pytorch
# with active_session():
#     train_net(n_epochs)

## I commented the 'with active_session()' above because it was giving me lots
  ↳ of connectivity issues.
train_net(n_epochs)

```

```

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Epoch: 4983, Batch: 40, Avg. Loss: 3.3605100393295286
Epoch: 4983, Batch: 50, Avg. Loss: 3.5626864194869996
Epoch: 4984, Batch: 10, Avg. Loss: 3.5786130666732787
Epoch: 4984, Batch: 20, Avg. Loss: 3.449671721458435
Epoch: 4984, Batch: 30, Avg. Loss: 3.4444508790969848
Epoch: 4984, Batch: 40, Avg. Loss: 3.4122357606887816
Epoch: 4984, Batch: 50, Avg. Loss: 3.4788630962371827
Epoch: 4985, Batch: 10, Avg. Loss: 3.47896146774292
Epoch: 4985, Batch: 20, Avg. Loss: 3.406132221221924
Epoch: 4985, Batch: 30, Avg. Loss: 3.5330577373504637
Epoch: 4985, Batch: 40, Avg. Loss: 3.6203662633895872
Epoch: 4985, Batch: 50, Avg. Loss: 3.324401354789734
Epoch: 4986, Batch: 10, Avg. Loss: 3.733212971687317
Epoch: 4986, Batch: 20, Avg. Loss: 3.4324697971343996
Epoch: 4986, Batch: 30, Avg. Loss: 3.3300374269485475
Epoch: 4986, Batch: 40, Avg. Loss: 3.6194541692733764
Epoch: 4986, Batch: 50, Avg. Loss: 3.4270134449005125
Epoch: 4987, Batch: 10, Avg. Loss: 3.5168445825576784
Epoch: 4987, Batch: 20, Avg. Loss: 3.247235727310181
Epoch: 4987, Batch: 30, Avg. Loss: 3.228917717933655
Epoch: 4987, Batch: 40, Avg. Loss: 3.2286256074905397
Epoch: 4987, Batch: 50, Avg. Loss: 3.529425311088562
Epoch: 4988, Batch: 10, Avg. Loss: 3.429567074775696

Epoch: 4988, Batch: 20, Avg. Loss: 3.3969279527664185
Epoch: 4988, Batch: 30, Avg. Loss: 3.304672622680664
Epoch: 4988, Batch: 40, Avg. Loss: 3.416830611228943
Epoch: 4988, Batch: 50, Avg. Loss: 3.412364864349365
Epoch: 4989, Batch: 10, Avg. Loss: 3.4008145332336426
Epoch: 4989, Batch: 20, Avg. Loss: 3.36593017578125
Epoch: 4989, Batch: 30, Avg. Loss: 3.5595935583114624
Epoch: 4989, Batch: 40, Avg. Loss: 3.2453957319259645
Epoch: 4989, Batch: 50, Avg. Loss: 3.284359264373779
Epoch: 4990, Batch: 10, Avg. Loss: 3.2622316122055053
Epoch: 4990, Batch: 20, Avg. Loss: 3.404573655128479
Epoch: 4990, Batch: 30, Avg. Loss: 3.4793002128601076
Epoch: 4990, Batch: 40, Avg. Loss: 3.409750151634216
Epoch: 4990, Batch: 50, Avg. Loss: 3.207472014427185
Epoch: 4991, Batch: 10, Avg. Loss: 3.373656988143921
Epoch: 4991, Batch: 20, Avg. Loss: 3.3949930667877197
Epoch: 4991, Batch: 30, Avg. Loss: 3.517841339111328
Epoch: 4991, Batch: 40, Avg. Loss: 3.110080599784851
Epoch: 4991, Batch: 50, Avg. Loss: 3.626261019706726
Epoch: 4992, Batch: 10, Avg. Loss: 3.3808881759643556
Epoch: 4992, Batch: 20, Avg. Loss: 3.456418251991272
Epoch: 4992, Batch: 30, Avg. Loss: 3.332613158226013
Epoch: 4992, Batch: 40, Avg. Loss: 3.457349181175232
Epoch: 4992, Batch: 50, Avg. Loss: 3.5065282821655273
Epoch: 4993, Batch: 10, Avg. Loss: 3.346230125427246
Epoch: 4993, Batch: 20, Avg. Loss: 3.423455286026001
Epoch: 4993, Batch: 30, Avg. Loss: 3.1983268022537232
Epoch: 4993, Batch: 40, Avg. Loss: 3.8314860820770265
Epoch: 4993, Batch: 50, Avg. Loss: 3.3072776794433594
Epoch: 4994, Batch: 10, Avg. Loss: 3.388456439971924
Epoch: 4994, Batch: 20, Avg. Loss: 3.3008442640304567
Epoch: 4994, Batch: 30, Avg. Loss: 3.3839213132858275
Epoch: 4994, Batch: 40, Avg. Loss: 3.5343300819396974
Epoch: 4994, Batch: 50, Avg. Loss: 3.566387939453125
Epoch: 4995, Batch: 10, Avg. Loss: 3.3587860107421874
Epoch: 4995, Batch: 20, Avg. Loss: 3.3591330528259276
Epoch: 4995, Batch: 30, Avg. Loss: 3.3970049142837526
Epoch: 4995, Batch: 40, Avg. Loss: 3.5999868392944334
Epoch: 4995, Batch: 50, Avg. Loss: 3.430578923225403
Epoch: 4996, Batch: 10, Avg. Loss: 3.641755700111389
Epoch: 4996, Batch: 20, Avg. Loss: 3.507424306869507
Epoch: 4996, Batch: 30, Avg. Loss: 3.534501481056213
Epoch: 4996, Batch: 40, Avg. Loss: 3.4822781085968018
Epoch: 4996, Batch: 50, Avg. Loss: 3.2422703981399534
Epoch: 4997, Batch: 10, Avg. Loss: 3.535421299934387
Epoch: 4997, Batch: 20, Avg. Loss: 3.2766876220703125
Epoch: 4997, Batch: 30, Avg. Loss: 3.417261743545532
Epoch: 4997, Batch: 40, Avg. Loss: 3.448002552986145

```

Epoch: 4997, Batch: 50, Avg. Loss: 3.7113291740417482
Epoch: 4998, Batch: 10, Avg. Loss: 3.4389689207077025
Epoch: 4998, Batch: 20, Avg. Loss: 3.350955295562744
Epoch: 4998, Batch: 30, Avg. Loss: 3.4471738576889037
Epoch: 4998, Batch: 40, Avg. Loss: 3.7221567153930666
Epoch: 4998, Batch: 50, Avg. Loss: 3.3542568922042846
Epoch: 4999, Batch: 10, Avg. Loss: 3.367660140991211
Epoch: 4999, Batch: 20, Avg. Loss: 3.762940001487732
Epoch: 4999, Batch: 30, Avg. Loss: 3.330880570411682
Epoch: 4999, Batch: 40, Avg. Loss: 3.1271066427230836
Epoch: 4999, Batch: 50, Avg. Loss: 3.4281471967697144
Epoch: 5000, Batch: 10, Avg. Loss: 3.232127332687378
Epoch: 5000, Batch: 20, Avg. Loss: 3.6919084548950196
Epoch: 5000, Batch: 30, Avg. Loss: 3.614829111099243
Epoch: 5000, Batch: 40, Avg. Loss: 3.331595468521118
Epoch: 5000, Batch: 50, Avg. Loss: 3.3498497724533083
Finished Training

```

0.11 Test data

See how your model performs on previously unseen, test data. We've already loaded and transformed this data, similar to the training data. Next, run your trained model on these images to see what kind of keypoints are produced. You should be able to see if your model is fitting each new face it sees, if the points are distributed randomly, or if the points have actually overfitted the training data and do not generalize.

```

[17]: # get a sample of test data again
      test_images, test_outputs, gt_pts = net_sample_output()

      print(test_images.data.size())
      print(test_outputs.data.size())
      print(gt_pts.size())

```

```

torch.Size([60, 1, 224, 224])
torch.Size([60, 68, 2])
torch.Size([60, 68, 2])

```

```

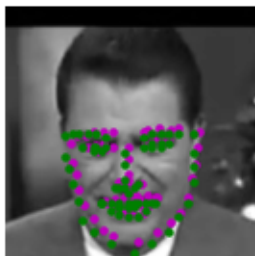
[18]: ## TODO: visualize your test output
      # you can use the same function as before, by un-commenting the line below:

      # visualize_output(test_images, test_outputs, gt_pts)
      visualize_output(test_images, test_outputs, gt_pts)

```







Once you've found a good model (or two), save your model so you can load it and use it later!

Save your models but please **delete any checkpoints and saved models before you submit your project** otherwise your workspace may be too large to submit.

```
[19]: ## TODO: change the name to something unique for each new model
model_dir = 'saved_models/'
# model_name = 'keypoints_model_1.pt'
# model_name = 'keypoints_model_2.pt'
# model_name = 'keypoints_model_3.pt' ### Best
# model_name = 'keypoints_model_4.pt'
# model_name = 'keypoints_model_5.pt'
# model_name = 'keypoints_model_6.pt'
# model_name = 'keypoints_model_7.pt'
# model_name = 'keypoints_model_8.pt'
model_name = 'keypoints_model_001.pt'

# after training, save your model parameters in the dir 'saved_models'
torch.save(net.state_dict(), model_dir+model_name)
```

After you've trained a well-performing model, answer the following questions so that we have some insight into your training and architecture selection process. Answering all questions is required to pass this project.

0.11.1 Question 1: What optimization and loss functions did you choose and why?

Answer: write your answer here (double click to edit this cell)

I used the Adam optimizer, as suggested in the paper “Facial Key Points Detection using Deep Convolutional Neural Network - NaimishNet.” (<https://arxiv.org/pdf/1710.00977.pdf>). I also used almost the same optimizer parameters, except for the learning rate (which I used 0.0001 and the paper mentioned 0.001).

For the loss function, I used the SmoothL1Loss since it is suitable for regression problems, such as keypoint detection, and also because this loss function helps preventing both the vanishing and the exploding gradients problems.

0.11.2 Question 2: What kind of network architecture did you start with and how did it change as you tried different architectures? Did you decide to add more convolutional layers or any layers to avoid overfitting the data?

Answer: write your answer here

I based my architecture on NaimishNet , also shown in the paper “Facial Key Points Detection using Deep Convolutional Neural Network - NaimishNet.” (<https://arxiv.org/pdf/1710.00977.pdf>). For the number of convolutional layers and also for most of the other network parameters I used the same values as NaimishNet. Some of the main differences between my architecture and Naimishnet are the following:

- * I added BatchNorm2d layers to make my training more stable.

- * For the input image size I used 224x224.

- * For my last fully connected layer I utilized a customized version of the Sigmoid activation function to enforce my keypoint positions, for both x and y axis, to range between $-1 \times \text{image_width}$ and $2 \times \text{image_width}$ to account for situations when only part of the faces are shown at the edges of the images. In my architecture I consider that the width and height of the images are the same.

Since my results on the test images were satisfactory, I did not observe significant overfitting during my training.

0.11.3 Question 3: How did you decide on the number of epochs and batch_size to train your model?

Answer: write your answer here

I set batch size to 60 and I couldn't set it to a larger value due to the memory limitation on my GPU, but the result was still very satisfactory.

I used 5000 epochs in my training and I realized it was enough as the loss value plateaued (with almost no decrease) at around 1500 epochs during my training. Even though the loss function decreased very slightly after epoch 1500, I continued training my Deep Learning model until epoch 5000 because for each small reduction in the value of the loss function, I could notice significant improvements in the quality of my inference results.

0.12 Feature Visualization

Sometimes, neural networks are thought of as a black box, given some input, they learn to produce some output. CNN's are actually learning to recognize a variety of spatial patterns and you can visualize what each convolutional layer has been trained to recognize by looking at the weights that make up each convolutional kernel and applying those one at a time to a sample image. This technique is called feature visualization and it's useful for understanding the inner workings of a CNN.

In the cell below, you can see how to extract a single filter (by index) from your first convolutional layer. The filter should appear as a grayscale grid.

```
[22]: # Loop through each layer in the model
conv_layer = None
for layer in net.modules():
    if isinstance(layer, torch.nn.Conv2d):
        conv_layer = layer
        break

# Check if a convolutional layer was found
if conv_layer is None:
    raise ValueError("No convolutional layer found in the model")

# Extract filter weights
if (dev == "cuda:0"):
    # Move image to CPU before conversion to numpy
    weights = conv_layer.weight.data.cpu() # Move to CPU first
else:
    weights = conv_layer.weight.data # get the image from it's Variable
    ↪ wrapper
weights = weights.numpy()

# Visualize a specific filter
filter_index = 0
# filter_index = 10
print(weights[filter_index][0])
print(weights[filter_index][0].shape)

# Display the filter weights
plt.imshow(weights[filter_index][0], cmap='gray')
plt.show()

# # Get the weights in the first conv layer, "conv1"
# # if necessary, change this to reflect the name of your first conv layer
# weights1 = net.conv1.weight.data

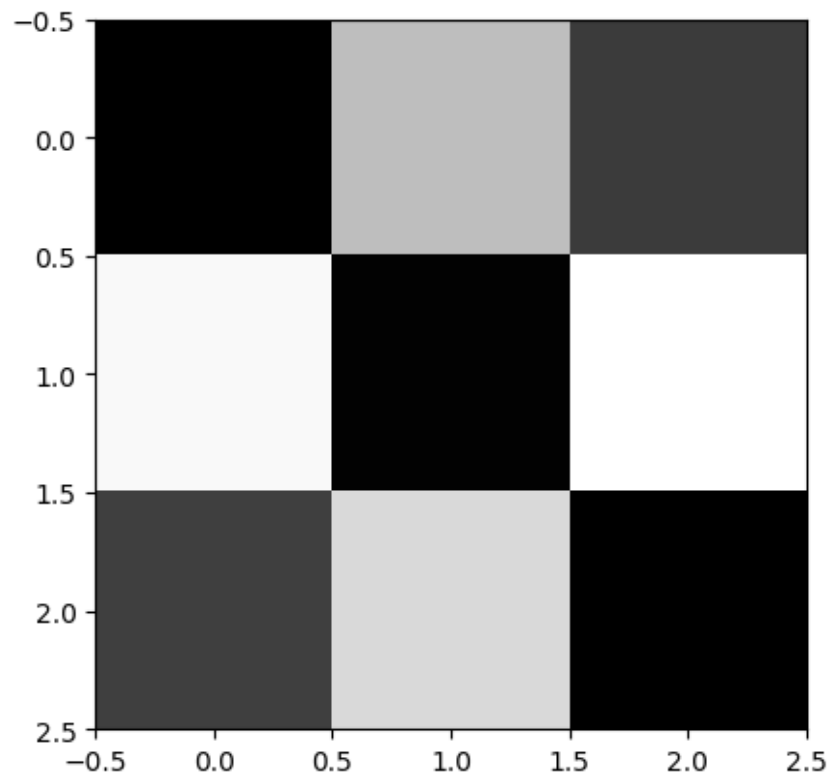
# w = weights1.numpy()
```

```
# filter_index = 0

# print(w[filter_index][0])
# print(w[filter_index][0].shape)

# # display the filter weights
# plt.imshow(w[filter_index][0], cmap='gray')
```

```
[[ -0.27152553  0.1749283  -0.13153747]
 [ 0.3132921  -0.26547801  0.32928994]
 [-0.12348521  0.2400563  -0.26981148]]
(3, 3)
```



0.13 Feature maps

Each CNN has at least one convolutional layer that is composed of stacked filters (also known as convolutional kernels). As a CNN trains, it learns what weights to include in its convolutional kernels and when these kernels are applied to some input image, they produce a set of **feature maps**. So, feature maps are just sets of filtered images; they are the images produced by applying a convolutional kernel to an input image. These maps show us the features that the different layers of the neural network learn to extract. For example, you might imagine a convolutional kernel that

detects the vertical edges of a face or another one that detects the corners of eyes. You can see what kind of features each of these kernels detects by applying them to an image. One such example is shown below; from the way it brings out the lines in an the image, you might characterize this as an edge detection filter.

Next, choose a test image and filter it with one of the convolutional kernels in your trained CNN; look at the filtered output to get an idea what that particular kernel detects.

0.14 ### TODO: Filter an image to see the effect of a convolutional kernel

```
[25]: ##TODO: load in and display any image from the transformed test dataset

#####
import cv2
# import numpy

image_index = 0
filter_index = 0 ### 15 ; 2 ; 4

#####

# un-transform the image data
img = test_images[image_index].data # get the image from it's Variable wrapper
if (dev == "cuda:0"):
    # Move image to CPU before conversion to numpy
    img = img.cpu() # Move to CPU first
else:
    img = img # get the image from it's Variable wrapper
img = img.numpy() # convert to numpy array from a Tensor
img = np.transpose(img, (1, 2, 0)) # transpose to go from torch to numpy image

# print out the dimensions of the data to see if they make sense
print("test_images.data.size() = "+str(test_images.data.size()))
print()

#####

# Loop through each layer in the model
conv_layer = None
for layer in net.modules():
    if isinstance(layer, torch.nn.Conv2d):
        conv_layer = layer
        break

# Check if a convolutional layer was found
if conv_layer is None:
    raise ValueError("No convolutional layer found in the model")
```

```

# Extract filter weights
if (dev == "cuda:0"):
    # Move image to CPU before conversion to numpy
    weights = conv_layer.weight.data.cpu() # Move to CPU first
else:
    weights = conv_layer.weight.data # get the image from it's Variable ↵
    ↵wrapper
weights = weights.numpy()

# Visualize a specific filter
print("weights.shape = "+str(weights.shape))
print(weights[filter_index][0])
print(weights[filter_index][0].shape)

c = cv2.filter2D(img, -1, weights[filter_index][0])
plt.imshow(img, cmap='gray')

# Display the filter weight and convolution result :

# 1. first conv layer
# for 10 filters
fig=plt.figure(figsize=(30, 10))
columns = 2
rows = 1
for i in range(0, columns*rows):
    fig.add_subplot(rows, columns, i+1)
    if ((i%2)==0):
#         plt.imshow(weights[int(i/2)][0], cmap='gray')
        plt.imshow(weights[filter_index][0], cmap='gray')
    else:
#         c = cv2.filter2D(img, -1, weights[int((i-1)/2)][0])
        plt.imshow(c, cmap='gray')
plt.show()

## TODO: Using cv's filter2D function,
## apply a specific set of filter weights (like the one displayed above) to the ↵
    ↵test image

```

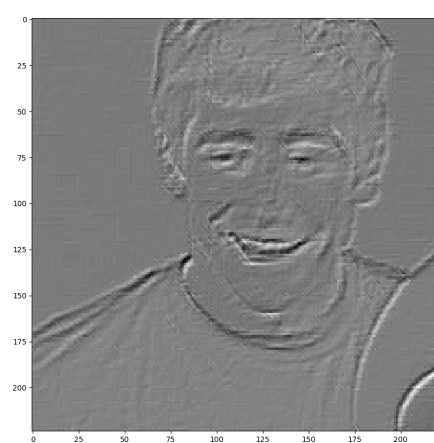
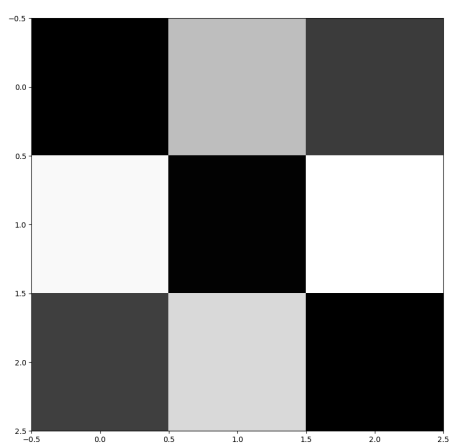
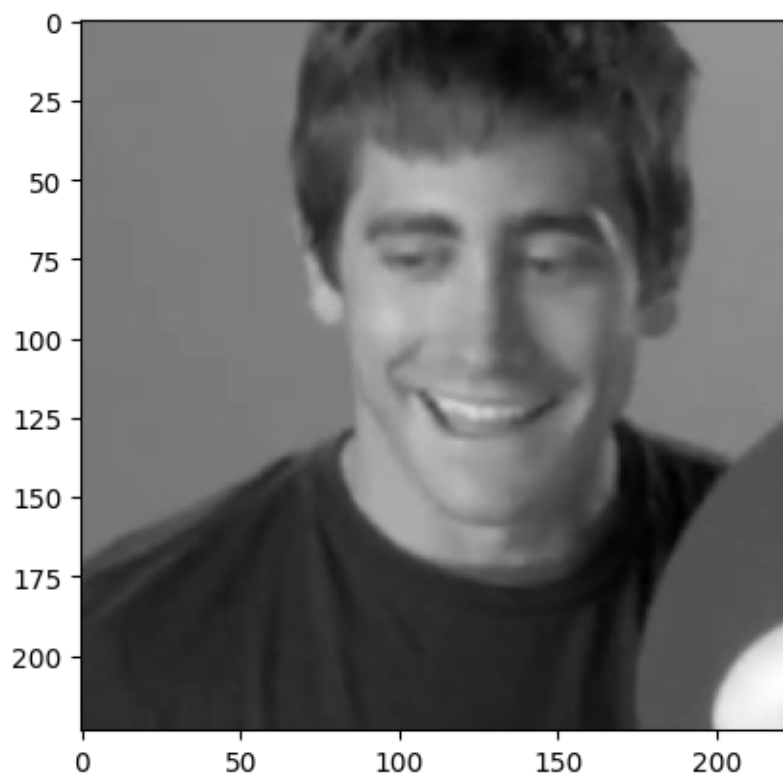
```
test_images.data.size() = torch.Size([60, 1, 224, 224])
```

```

weights.shape = (32, 1, 3, 3)
[[-0.27152553  0.1749283 -0.13153747]
 [ 0.3132921 -0.26547801  0.32928994]]

```

```
[-0.12348521  0.2400563  -0.26981148]]  
(3, 3)
```



0.14.1 Question 4: Choose one filter from your trained CNN and apply it to a test image; what purpose do you think it plays? What kind of feature do you think it detects?

Answer: (does it detect vertical lines or does it blur out noise, etc.) write your answer here

This filter acts mostly as an edge detector for gradients in both 'x' and 'y' directions .

0.15 Moving on!

Now that you've defined and trained your model (and saved the best model), you are ready to move on to the last notebook, which combines a face detector with your saved model to create a facial keypoint detection system that can predict the keypoints on *any* face in an image!

[]: