

coursework_02

February 24, 2024

1 Coursework 2: Image segmentation

In this coursework you will develop and train a convolutional neural network for brain tumour image segmentation. Please read both the text and the code in this notebook to get an idea what you are expected to implement. Pay attention to the missing code blocks that look like this:

```
### Insert your code ###  
...  
### End of your code ###
```

1.1 What to do?

- Complete and run the code using `jupyter-lab` or `jupyter-notebook` to get the results.
- Export (File | Save and Export Notebook As...) the notebook as a PDF file, which contains your code, results and answers, and upload the PDF file onto [Scientia](#).
- Instead of clicking the Export button, you can also run the following command instead:
`jupyter nbconvert coursework.ipynb --to pdf`
- If Jupyter complains about some problems in exporting, it is likely that `pandoc` (<https://pandoc.org/installing.html>) or `latex` is not installed, or their paths have not been included. You can install the relevant libraries and retry.
- If Jupyter-lab does not work for you at the end, you can use Google Colab to write the code and export the PDF file.

1.2 Dependencies

You need to install Jupyter-Lab (https://jupyterlab.readthedocs.io/en/stable/getting_started/installation.html) and other libraries used in this coursework, such as by running the command: `pip3 install [package_name]`

1.3 GPU resource

The coursework is developed to be able to run on CPU, as all images have been pre-processed to be 2D and of a smaller size, compared to original 3D volumes.

However, to save training time, you may want to use GPU. In that case, you can run this notebook on Google Colab. On Google Colab, go to the menu, Runtime - Change runtime type, and select **GPU** as the hardware accelerator. At the end, please still export everything and submit as a PDF file on Scientia.

```
[39]: # Import libraries
# These libraries should be sufficient for this tutorial.
# However, if any other library is needed, please install by yourself.
import tarfile
import imageio
import torch
import torch.nn as nn
import torch.nn.functional as F
import torch.optim as optim
from torch.utils.data import Dataset
import numpy as np
import time
import os
import random
import matplotlib.pyplot as plt
from matplotlib import colors
```

1.4 1. Download and visualise the imaging dataset.

The dataset is curated from the brain imaging dataset in [Medical Decathlon Challenge](#). To save the storage and reduce the computational cost for this tutorial, we extract 2D image slices from T1-Gd contrast enhanced 3D brain volumes and downsample the images.

The dataset consists of a training set and a test set. Each image is of dimension 120 x 120, with a corresponding label map of the same dimension. There are four number of classes in the label map:

- 0: background
- 1: edema
- 2: non-enhancing tumour
- 3: enhancing tumour

```
[2]: # Download the dataset
!wget https://www.dropbox.com/s/zmytk2yu284af6t/Task01_BrainTumour_2D.tar.gz

# Unzip the '.tar.gz' file to the current directory
datafile = tarfile.open('Task01_BrainTumour_2D.tar.gz')
datafile.extractall()
datafile.close()
```

Will not apply HSTS. The HSTS database must be a regular and non-world-writable file.

ERROR: could not open HSTS store at '/Users/fate/.wget-hsts'. HSTS will be disabled.

--2024-02-19 12:58:48--

https://www.dropbox.com/s/zmytk2yu284af6t/Task01_BrainTumour_2D.tar.gz

Resolving www.dropbox.com (www.dropbox.com)... 2620:100:6020:18::a27d:4012, 162.125.64.18

Connecting to www.dropbox.com

```

(www.dropbox.com)|2620:100:6020:18::a27d:4012|:443... failed: Operation timed
out.
Connecting to www.dropbox.com (www.dropbox.com)|162.125.64.18|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: /s/raw/zmytk2yu284af6t/Task01_BrainTumour_2D.tar.gz [following]
--2024-02-19 13:00:04--
https://www.dropbox.com/s/raw/zmytk2yu284af6t/Task01_BrainTumour_2D.tar.gz
Reusing existing connection to www.dropbox.com:443.
HTTP request sent, awaiting response... 302 Found
Location: https://uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com/cd/0/in
line/CNmmmw9wTypFuF6p7dk3UgcIXG7N-
9jZQ7zJKaWpobgcCocF02WC1QrjbKUiGf72SV_cdTx4nGN0xIOqJWpCCLlbitVtm-
sppkWYySFJUnmc_Mtpua2lcf1_g-k0k0sQrhA/file# [following]
--2024-02-19 13:00:04-- https://uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercont
ent.com/cd/0/inline/CNmmmw9wTypFuF6p7dk3UgcIXG7N-
9jZQ7zJKaWpobgcCocF02WC1QrjbKUiGf72SV_cdTx4nGN0xIOqJWpCCLlbitVtm-
sppkWYySFJUnmc_Mtpua2lcf1_g-k0k0sQrhA/file
Resolving uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com
(uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com)...
2620:100:6020:15::a27d:400f, 162.125.64.15
Connecting to uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com (uce9d8a7f9
26b4e7d1a615152f19.dl.dropboxusercontent.com)|2620:100:6020:15::a27d:400f|:443..
. failed: Operation timed out.
Connecting to uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com
(uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com)|162.125.64.15|:443...
connected.
HTTP request sent, awaiting response... 302 Found
Location: /cd/0/inline2/CNkV-VGONQHTiH1-
2si29_szQe4X20h0_szlEVfJFnhSkoUvDLDuP4zCQKIvOYCQxxGo-z8FK7-QH25JU7dD7JR-EVUDoVuI
xR_tmufFawq0shZwcB0mjEZX_ooeqLtNtGCXPUxAGYU0A0oVL8AWXgRHEozWATSzNagZlAthKhNULAbT
rM95CUKqeSu5_ePKL9cmIB-nXHW6hgW4CG87MbNf9ooJsN3gfHz3Wj-
z7EpDLLyDQ77J5H6L4pav7J7RKgz3aKSp8FBITaXSus8Q3d_h89nuS0yChIY2UUma2D1-
Y9xP1ppyUKoL1C-jmmG2p1znRv25x0o0r6lCZxMliQjsosn3wmiopZTwpEITXT-92PQ/file
[following]
--2024-02-19 13:01:20-- https://uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercont
ent.com/cd/0/inline2/CNkV-VGONQHTiH1-
2si29_szQe4X20h0_szlEVfJFnhSkoUvDLDuP4zCQKIvOYCQxxGo-z8FK7-QH25JU7dD7JR-EVUDoVuI
xR_tmufFawq0shZwcB0mjEZX_ooeqLtNtGCXPUxAGYU0A0oVL8AWXgRHEozWATSzNagZlAthKhNULAbT
rM95CUKqeSu5_ePKL9cmIB-nXHW6hgW4CG87MbNf9ooJsN3gfHz3Wj-
z7EpDLLyDQ77J5H6L4pav7J7RKgz3aKSp8FBITaXSus8Q3d_h89nuS0yChIY2UUma2D1-
Y9xP1ppyUKoL1C-jmmG2p1znRv25x0o0r6lCZxMliQjsosn3wmiopZTwpEITXT-92PQ/file
Reusing existing connection to
uce9d8a7f926b4e7d1a615152f19.dl.dropboxusercontent.com:443.
HTTP request sent, awaiting response... 200 OK
Length: 9251149 (8.8M) [application/octet-stream]
Saving to: 'Task01_BrainTumour_2D.tar.gz'

```

```
Task01_BrainTumour_ 100%[=====] 8.82M 13.4MB/s in 0.7s
```

2024-02-19 13:01:21 (13.4 MB/s) - 'Task01_BrainTumour_2D.tar.gz' saved
[9251149/9251149]

1.5 Visualise a random set of 4 training images along with their label maps.

Suggested colour map for brain MR image:

```
cmap = 'gray'
```

Suggested colour map for segmentation map:

```
cmap = colors.ListedColormap(['black', 'green', 'blue', 'red'])
```

```
[107]: cmap = colors.ListedColormap(['black', 'green', 'blue', 'red'])

def select_random_pairs(training_dir, label_dir, num_pairs=4):
    files = os.listdir(training_dir)
    selected_files = random.sample(files, num_pairs)

    images = []
    labels = []
    for f in selected_files:
        images.append(os.path.join(training_dir, f))
        labels.append(os.path.join(label_dir, f))

    return images, labels

def visualize_with_labels(images, labels):
    _, axs = plt.subplots(4, 2, figsize=(10, 10))

    for i, (image_path, label_path) in enumerate(zip(images, labels)):
        image = imageio.imread(image_path)
        label = imageio.imread(label_path)

        # display the original image in the first column
        axs[i, 0].imshow(image, cmap='gray')
        axs[i, 0].axis('off')

        # display the overlaid image in the second column
        axs[i, 1].imshow(image, cmap='gray') # first display the image in
        ↪ grayscale
        axs[i, 1].imshow(label, cmap=cmap, alpha=0.4) # then overlay the label
        axs[i, 1].axis('off')

    plt.tight_layout()
    plt.show()
```

```

training_dir = 'Task01_BrainTumour_2D/training_images'
label_dir = 'Task01_BrainTumour_2D/training_labels'

images, labels = select_random_pairs(training_dir, label_dir, 4)

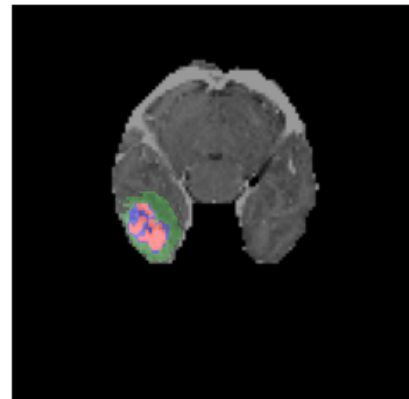
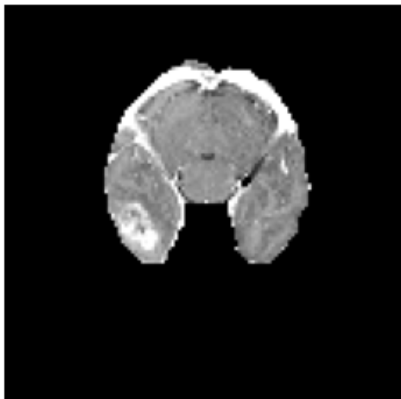
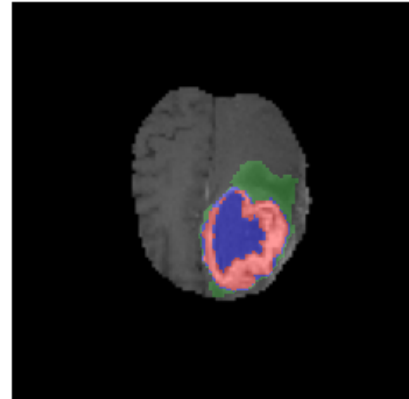
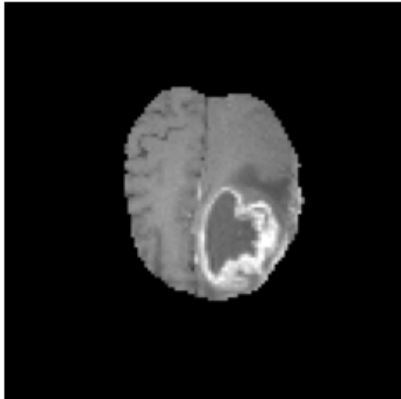
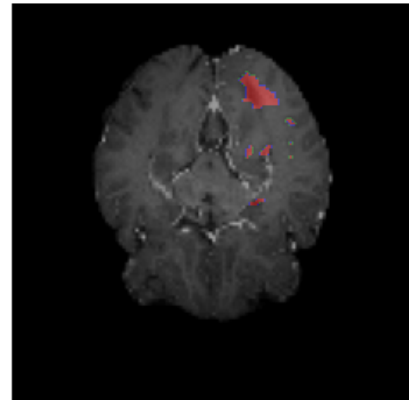
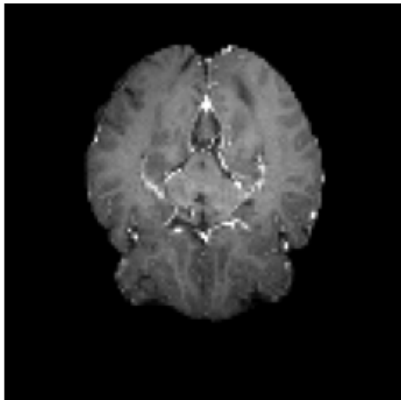
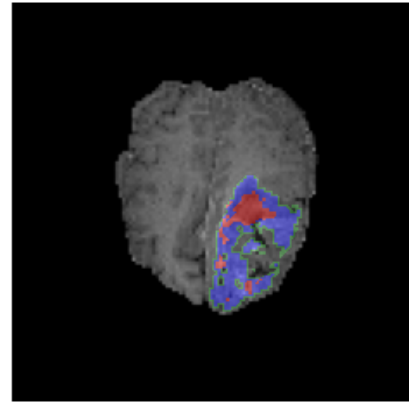
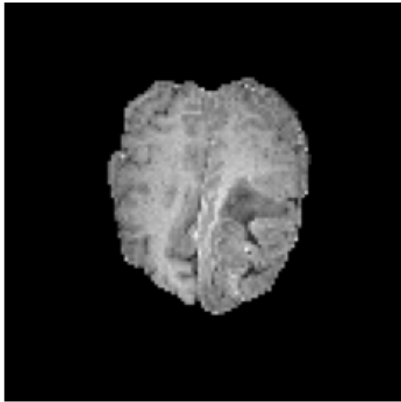
# Visualize
visualize_with_labels(images, labels)

```

```

/var/folders/g8/tv0n_c7d0d77hmpf9kw7mvrw0000gn/T/ipykernel_65185/1939092974.py:1
9: DeprecationWarning: Starting with ImageIO v3 the behavior of this function
will switch to that of iio.v3.imread. To keep the current behavior (and make
this warning disappear) use `import imageio.v2 as imageio` or call
`imageio.v2.imread` directly.
    image = imageio.imread(image_path)
/var/folders/g8/tv0n_c7d0d77hmpf9kw7mvrw0000gn/T/ipykernel_65185/1939092974.py:2
0: DeprecationWarning: Starting with ImageIO v3 the behavior of this function
will switch to that of iio.v3.imread. To keep the current behavior (and make
this warning disappear) use `import imageio.v2 as imageio` or call
`imageio.v2.imread` directly.
    label = imageio.imread(label_path)

```



1.6 2. Implement a dataset class.

It can read the imaging dataset and get items, pairs of images and label maps, as training batches.

```
[108]: def normalise_intensity(image, thres_roi=1.0):  
    """ Normalise the image intensity by the mean and standard deviation """  
    # ROI defines the image foreground  
    val_l = np.percentile(image, thres_roi)  
    roi = (image >= val_l)  
    mu, sigma = np.mean(image[roi]), np.std(image[roi])  
    eps = 1e-6  
    image2 = (image - mu) / (sigma + eps)  
    return image2  
  
class BrainImageSet(Dataset):  
    """ Brain image set """  
    def __init__(self, image_path, label_path='', deploy=False):  
        self.image_path = image_path  
        self.deploy = deploy  
        self.images = []  
        self.labels = []  
  
        image_names = sorted(os.listdir(image_path))  
        for image_name in image_names:  
            # Read the image  
            image = imageio.imread(os.path.join(image_path, image_name))  
            self.images += [image]  
  
            # Read the label map  
            if not self.deploy:  
                label_name = os.path.join(label_path, image_name)  
                label = imageio.imread(label_name)  
                self.labels += [label]  
  
    def __len__(self):  
        return len(self.images)  
  
    def __getitem__(self, idx):  
        # Get an image and perform intensity normalisation  
        # Dimension: XY  
        image = normalise_intensity(self.images[idx])  
  
        # Get its label map  
        # Dimension: XY
```

```

        label = self.labels[idx]
        return image, label

    def get_random_batch(self, batch_size):
        # Get a batch of paired images and label maps
        # Dimension of images: NCXY
        # Dimension of labels: NXY
        # print(self.images[0].shape, self.labels[0].shape)
        images, labels = [np.array(t) for t in list(zip(*random.
↪sample(list(self), batch_size)))]
        image_arr = np.stack(images)[: , np.newaxis, :, :]
        label_arr = np.stack(labels)
        return image_arr, label_arr

```

1.7 3. Build a U-net architecture.

You will implement a U-net architecture. If you are not familiar with U-net, please read this paper:

[1] Olaf Ronneberger et al. [U-Net: Convolutional networks for biomedical image segmentation](#). MICCAI, 2015.

For the first convolutional layer, you can start with 16 filters. We have implemented the encoder path. Please complete the decoder path.

```

[109]: """ U-net """
class UNet(nn.Module):
    def __init__(self, input_channel=1, output_channel=1, num_filter=16):
        super(UNet, self).__init__()

        # BatchNorm: by default during training this layer keeps running
↪estimates
        # of its computed mean and variance, which are then used for
↪normalization
        # during evaluation.

        # Encoder path
        n = num_filter # 16
        self.conv1 = nn.Sequential(
            nn.Conv2d(input_channel, n, kernel_size=3, padding=1),
            nn.BatchNorm2d(n),
            nn.ReLU(),
            nn.Conv2d(n, n, kernel_size=3, padding=1),
            nn.BatchNorm2d(n),
            nn.ReLU()
        )

        n *= 2 # 32
        self.conv2 = nn.Sequential(

```



```

        nn.Conv2d(int(n / 2), n, kernel_size=3, stride=2, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU(),
        nn.Conv2d(n, n, kernel_size=3, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU()
    )

    n *= 2 # 64
    self.conv3 = nn.Sequential(
        nn.Conv2d(int(n / 2), n, kernel_size=3, stride=2, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU(),
        nn.Conv2d(n, n, kernel_size=3, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU()
    )

    n *= 2 # 128
    self.conv4 = nn.Sequential(
        nn.Conv2d(int(n / 2), n, kernel_size=3, stride=2, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU(),
        nn.Conv2d(n, n, kernel_size=3, padding=1),
        nn.BatchNorm2d(n),
        nn.ReLU()
    )

    # Decoder path
    self.upconv3 = nn.Sequential(
        nn.ConvTranspose2d(n, int(n / 2), kernel_size=2, stride=2),
        nn.ReLU()
    )
    self.dec_conv3 = nn.Sequential(
        nn.Conv2d(n, int(n / 2), kernel_size=3, padding=1),
        nn.BatchNorm2d(int(n / 2)),
        nn.ReLU(),
        nn.Conv2d(int(n / 2), int(n / 2), kernel_size=3, padding=1),
        nn.BatchNorm2d(int(n / 2)),
        nn.ReLU()
    )

    n //= 2 # 64
    self.upconv2 = nn.Sequential(
        nn.ConvTranspose2d(int(n), int(n / 2), kernel_size=2, stride=2),
        nn.ReLU()
    )

```

```

self.dec_conv2 = nn.Sequential(
    nn.Conv2d(n, int(n / 2), kernel_size=3, padding=1),
    nn.BatchNorm2d(int(n / 2)),
    nn.ReLU(),
    nn.Conv2d(int(n / 2), int(n / 2), kernel_size=3, padding=1),
    nn.BatchNorm2d(int(n / 2)),
    nn.ReLU()
)

n //= 2 # 32
self.upconv1 = nn.Sequential(
    nn.ConvTranspose2d(int(n), int(n / 2), kernel_size=2, stride=2),
    nn.ReLU()
)
self.dec_conv1 = nn.Sequential(
    nn.Conv2d(n, int(n / 2), kernel_size=3, padding=1),
    nn.BatchNorm2d(int(n / 2)),
    nn.ReLU(),
    nn.Conv2d(int(n / 2), int(n / 2), kernel_size=3, padding=1),
    nn.BatchNorm2d(int(n / 2)),
    nn.ReLU()
)

n //= 2 # 16
self.final = nn.Conv2d(int(n), output_channel, kernel_size=1)

def forward(self, x):
    # Use the convolutional operators defined above to build the U-net
    # The encoder part is already done for you.
    # You need to complete the decoder part.
    # Encoder
    x = self.conv1(x)
    conv1_skip = x

    x = self.conv2(x)
    conv2_skip = x

    x = self.conv3(x)
    conv3_skip = x

    x = self.conv4(x)

    # Decoder
    x = self.upconv3(x)
    x = torch.cat((x, conv3_skip), dim=1)
    x = self.dec_conv3(x)

```

```

        x = self.upconv2(x)
        x = torch.cat((x, conv2_skip), dim=1)
        x = self.dec_conv2(x)

        x = self.upconv1(x)
        x = torch.cat((x, conv1_skip), dim=1)
        x = self.dec_conv1(x)

        x = self.final(x)

    return x

```

1.8 4. Train the segmentation model.

```

[110]: # CUDA device
device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
print('Device: {0}'.format(device))

# Build the model
num_class = 4
model = UNet(input_channel=1, output_channel=num_class, num_filter=16)
model = model.to(device)
params = list(model.parameters())

model_dir = 'saved_models'
if not os.path.exists(model_dir):
    os.makedirs(model_dir)

# Optimizer
optimizer = optim.Adam(params, lr=1e-3)

# Segmentation loss
criterion = nn.CrossEntropyLoss()

# Datasets
train_set = BrainImageSet('Task01_BrainTumour_2D/training_images',
    ↪ 'Task01_BrainTumour_2D/training_labels')
test_set = BrainImageSet('Task01_BrainTumour_2D/test_images',
    ↪ 'Task01_BrainTumour_2D/test_labels')

# Train the model
# Note: when you debug the model, you may reduce the number of iterations or
    ↪ batch size to save time.
num_iter = 10000
train_batch_size = 16
eval_batch_size = 16

```

```

start = time.time()
for it in range(1, 1 + num_iter):
    # Set the modules in training mode, which will have effects on certain
    ↪modules, e.g. dropout or batchnorm.
    start_iter = time.time()
    model.train()

    # Get a batch of images and labels
    images, labels = train_set.get_random_batch(train_batch_size)
    images, labels = torch.from_numpy(images), torch.from_numpy(labels)
    images, labels = images.to(device, dtype=torch.float32), labels.to(device,
    ↪dtype=torch.long)
    logits = model(images)

    # Perform optimisation and print out the training loss
    ### Insert your code ###
    optimizer.zero_grad()
    loss = criterion(logits, labels)
    loss.backward()
    optimizer.step()
    print('Iter {0}, Training Loss: {1:.4f}'.format(it, loss.item()))
    ### End of your code ###

    # Evaluate
    if it % 100 == 0:
        model.eval()
        # Disabling gradient calculation during reference to reduce memory
        ↪consumption
        with torch.no_grad():
            # Evaluate on a batch of test images and print out the test loss
            ### Insert your code ###
            test_images, test_labels = test_set.
            ↪get_random_batch(eval_batch_size)
            test_images, test_labels = torch.from_numpy(test_images), torch.
            ↪from_numpy(test_labels)
            test_images, test_labels = test_images.to(device, dtype=torch.
            ↪float32), test_labels.to(device, dtype=torch.long)
            test_logits = model(test_images)
            test_loss = criterion(test_logits, test_labels)
            print('Iter {0}, Test Loss: {1:.4f}'.format(it, test_loss.item()))
            ### End of your code ###

    # Save the model
    if it % 5000 == 0:
        print("Saving the model")

```

```
        torch.save(model.state_dict(), os.path.join(model_dir, 'model_{0}.pt'.
↪format(it)))
print('Training took {:.3f}s in total.'.format(time.time() - start))
```

```
/var/folders/g8/tv0n_c7d0d77hmpf9kw7mvrw0000gn/T/ipykernel_65185/1515733613.py:2
3: DeprecationWarning: Starting with ImageIO v3 the behavior of this function
will switch to that of iio.v3.imread. To keep the current behavior (and make
this warning disappear) use `import imageio.v2 as imageio` or call
`imageio.v2.imread` directly.
```

```
    image = imageio.imread(os.path.join(image_path, image_name))
/var/folders/g8/tv0n_c7d0d77hmpf9kw7mvrw0000gn/T/ipykernel_65185/1515733613.py:2
9: DeprecationWarning: Starting with ImageIO v3 the behavior of this function
will switch to that of iio.v3.imread. To keep the current behavior (and make
this warning disappear) use `import imageio.v2 as imageio` or call
`imageio.v2.imread` directly.
```

```
    label = imageio.imread(label_name)
```

Device: cpu

```
Iter 1, Training Loss: 1.4800
Iter 2, Training Loss: 1.4251
Iter 3, Training Loss: 1.3740
Iter 4, Training Loss: 1.3305
Iter 5, Training Loss: 1.2976
Iter 6, Training Loss: 1.2777
Iter 7, Training Loss: 1.2648
Iter 8, Training Loss: 1.2303
Iter 9, Training Loss: 1.2103
Iter 10, Training Loss: 1.2067
Iter 11, Training Loss: 1.1903
Iter 12, Training Loss: 1.1690
Iter 13, Training Loss: 1.1579
Iter 14, Training Loss: 1.1403
Iter 15, Training Loss: 1.1186
Iter 16, Training Loss: 1.1028
Iter 17, Training Loss: 1.1161
Iter 18, Training Loss: 1.0815
Iter 19, Training Loss: 1.0640
Iter 20, Training Loss: 1.0750
Iter 21, Training Loss: 1.0462
Iter 22, Training Loss: 1.0470
Iter 23, Training Loss: 1.0182
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Saving the model
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Iter 9459, Training Loss: 0.0055
Iter 9460, Training Loss: 0.0056
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Iter 9463, Training Loss: 0.0115
Iter 9464, Training Loss: 0.0065
Iter 9465, Training Loss: 0.0094
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Iter 9470, Training Loss: 0.0116
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Iter 9900, Test Loss: 0.0681
Iter 9901, Training Loss: 0.0117
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Iter 9904, Training Loss: 0.0056
Iter 9905, Training Loss: 0.0086
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Iter 9954, Training Loss: 0.0094
Iter 9955, Training Loss: 0.0060
Iter 9956, Training Loss: 0.0118
Iter 9957, Training Loss: 0.0067
Iter 9958, Training Loss: 0.0064
Iter 9959, Training Loss: 0.0108
Iter 9960, Training Loss: 0.0070
Iter 9961, Training Loss: 0.0106
Iter 9962, Training Loss: 0.0068

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Iter 9963, Training Loss: 0.0072
Iter 9964, Training Loss: 0.0071
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Iter 9994, Training Loss: 0.0060
Iter 9995, Training Loss: 0.0070
Iter 9996, Training Loss: 0.0077
Iter 9997, Training Loss: 0.0073
Iter 9998, Training Loss: 0.0082
Iter 9999, Training Loss: 0.0080
Iter 10000, Training Loss: 0.0097
Iter 10000, Test Loss: 0.0525
Saving the model
Training took 15344.810s in total.
```

1.9 5. Deploy the trained model to a random set of 4 test images and visualise the automated segmentation.

You can show the images as a 4 x 3 panel. Each row shows one example, with the 3 columns being the test image, automated segmentation and ground truth segmentation.

```
[120]: def visualize_with_labels(display_data_list):
    _, axs = plt.subplots(4, 3, figsize=(10, 10))

    axs[0, 0].set_title('Original Images')
    axs[0, 1].set_title('Inferred Segmentation Overlay')
    axs[0, 2].set_title('True Segmentation Overlay')

    for i, (image, inferred_labels, true_labels) in
    ↪enumerate(display_data_list):
        axs[i, 0].imshow(image, cmap='gray')
        axs[i, 0].axis('off')

        axs[i, 1].imshow(image, cmap='gray')
        axs[i, 1].imshow(inferred_labels, cmap=cmap, alpha=0.4)
        axs[i, 1].axis('off')

        axs[i, 2].imshow(image, cmap='gray')
        axs[i, 2].imshow(true_labels, cmap=cmap, alpha=0.4)
        axs[i, 2].axis('off')

    plt.tight_layout()
    plt.show()

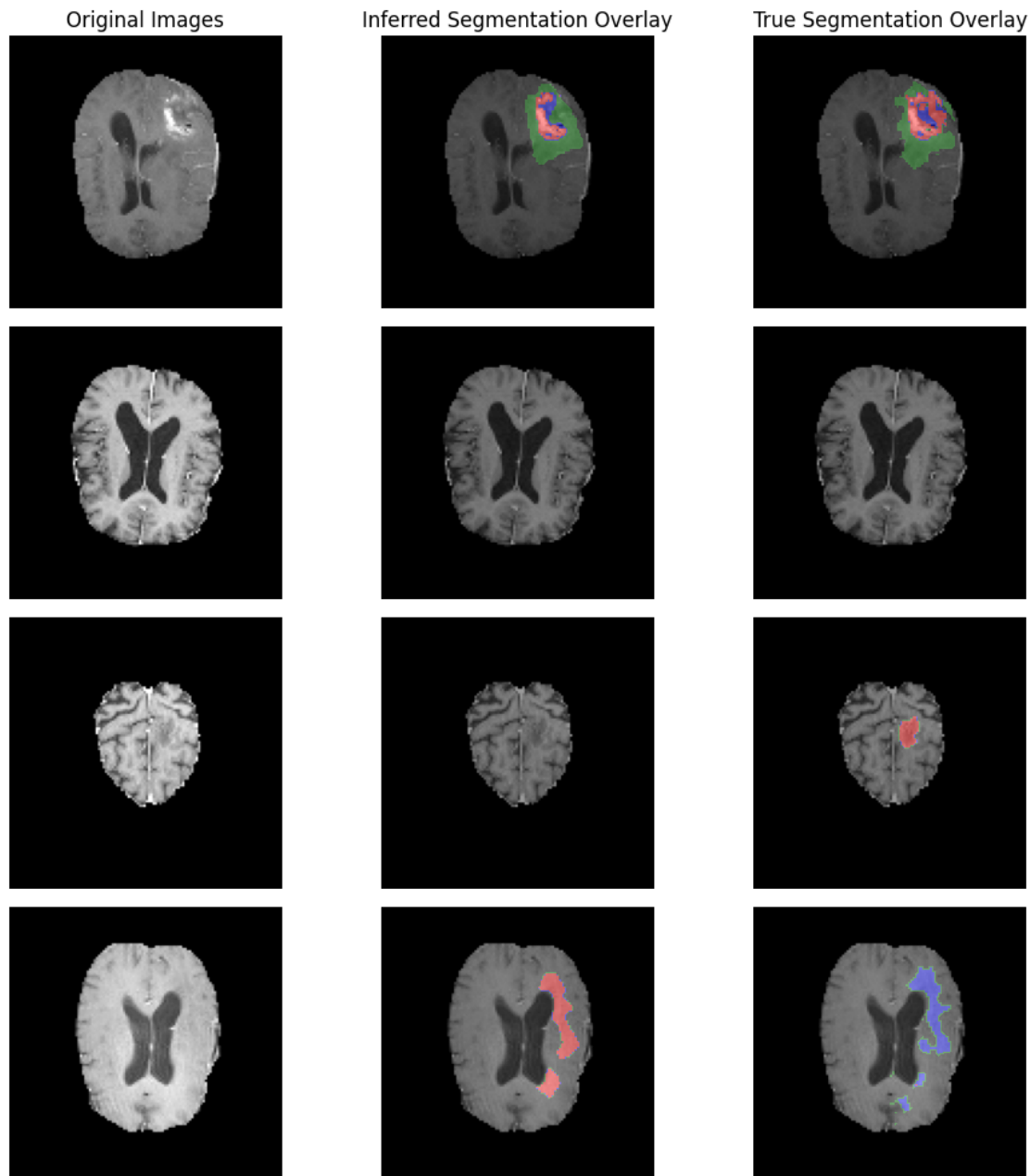
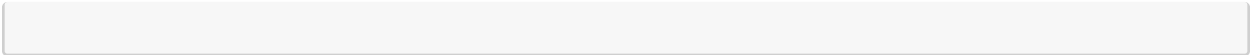
model = UNet(input_channel=1, output_channel=num_class, num_filter=16)
model.load_state_dict(torch.load('saved_models/model_10000.pt'))
model.eval()

def evaluate_image(image):
    with torch.no_grad():
        torch_image = torch.from_numpy(image)
        device_image = torch_image.to(device, dtype=torch.float32)
        logits = model(device_image)
        probabilities = F.softmax(logits, dim=1)
        label_map = torch.argmax(probabilities, dim=1)
        return label_map

def test_data_to_displayable(image, inferred_map, map):
    return image.squeeze(), inferred_map.squeeze().cpu().numpy(), map.squeeze()

display_data_list = []
for i in range(4):
    test_image, test_label = test_set.get_random_batch(1)
    inferred_map = evaluate_image(test_image)
    display_data_list.append(test_data_to_displayable(test_image, inferred_map,
    ↪test_label))

visualize_with_labels(display_data_list)
```

1.10 6. Discussion. Does your trained model work well? How would you improve this model so it can be deployed to the real clinic?

The trained model appears to usually do segmentation fine, but it appears to have a fairly high false positive rate. To make sure it performs well in real-world scenarios, we should test it on different datasets and use cross-validation to confirm its reliability, and likely use a larger dataset. I think

it's also important to add explanation features so people can understand how it makes decisions, and to ensure it follows medical software regulations, and set up ongoing performance monitoring. Running a few human studies and doing statistical tests to check how effective it is would also be good. These steps will help make the model more reliable, build trust with healthcare professionals, and meet the requirements of clinical environments.

[]: