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#Have commented out a lot of print statements to try and save time
#03/07/25 Code updated to remove z score norm and check channel dims
#LR scheduler added
#Stratified split not random
#27/06/25 PVA calcs added and to print at end of all training done

import os
import re
import torch
import numpy as np
import torch.nn as nn
import torch.optim as optim
from collections import Counter
from torch.utils.data import Dataset, DataLoader
from torchvision import transforms
import torchvision.models
from sklearn.model_selection import train_test_split
import timm
import matplotlib.pyplot as plt
from google.colab import files
uploaded = files.upload()
import sys
from math import sqrt
#From [name of imported file] import [name of class within that file]
from MBConvBlock import MBConvBlock
#From [name of imported file] import [name of class within that file]
from ScaledDotProductAttention import ScaledDotProductAttention
sys.path.append('.')
from torch.utils.data import random_split
from sklearn.metrics import confusion_matrix
import seaborn as sns
from sklearn.metrics import classification_report
from torch.utils.data import Subset
from torch.optim import lr_scheduler
from torch.nn.functional import pad
from torch.optim import lr_scheduler
import random

# Set device to GPU if available
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
def set_seed(seed=42):
    random.seed(seed)
    np.random.seed(seed)
    torch.manual_seed(seed)
    torch.cuda.manual_seed(seed)
    torch.backends.cudnn.deterministic = True
    torch.backends.cudnn.benchmark = False

set_seed(42)
#The pre-processing pipeline already performed z-score normalisation and channel changes, therefore
#the tensors being loaded are already shape [1, 224, 224]

def extract_number(filename):
    """Extracts numbers for sorting files like 'file_23.pt'."""
    match = re.search(r'(\d+)', filename)
    return int(match.group(1)) if match else 0

def generate_labels_from_filenames(mel_spectrogram_files, files_per_class=500):
    """
    Generates integer class labels based on file order.
    Example: 0 for first 25 files, 1 for next 25, etc.
    """
    mel_spectrogram_files.sort(key=extract_number)
    labels = [idx // files_per_class for idx in range(len(mel_spectrogram_files))]

    for idx, file in enumerate(mel_spectrogram_files):
        print(f"File: {file}, Label: {labels[idx]}")
    return labels

def check_labels(mel_spectrogram_files, labels):
    print("Checking file-label mapping:")
    for file, label in zip(mel_spectrogram_files, labels):
        print(f"File: {file} -> Label: {label}")

def collate_pad(batch):
    # ...

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tensors, labels = zip(*data_loader)

# Find max time dimension
max_len = max(tensor.shape[-1] for tensor in tensors)

# Pad all tensors to max_len
padded_tensors = []
for tensor in tensors:
    pad_len = max_len - tensor.shape[-1]
    padded_tensor = pad(tensor, (0, pad_len)) # pad last dimension
    padded_tensors.append(padded_tensor)

return torch.stack(padded_tensors), torch.tensor(labels)

class MelSpectrogramDataset(Dataset):
    def __init__(self, mel_spectrogram_dir, mel_spectrogram_files, labels, transform=None):
        self.mel_spectrogram_files = mel_spectrogram_files
        self.labels = labels
        self.transform = transform
        self.mel_spectrogram_dir = mel_spectrogram_dir

        if len(self.mel_spectrogram_files) != len(self.labels):
            raise ValueError("Mismatch between number of files and labels.")

    def __len__(self):
        return len(self.mel_spectrogram_files)

    def __getitem__(self, idx):
        file_name = self.mel_spectrogram_files[idx]
        path = os.path.join(self.mel_spectrogram_dir, file_name)

        mel = torch.load(path)
        label = int(self.labels[idx]) # Ensure label is integer
        #shouldn't need this next line anymore as my tensors should be
        #shape 1, 224, 224
        #if len(mel.shape) == 2:
        #    mel = mel.unsqueeze(0) # [1, H, W] - #✅ # Add channel dimensions i.e. change from [224, 224] to [1, 224, 224]

        # if self.transform:
        #    mel = nn.functional.interpolate(mel.unsqueeze(0), size=(224, 224), mode='bilinear', align_corners=False).squeeze(0)
        #    mel = self.transform(mel) # Resize + Normalize

        if mel.shape[0] == 1:
            mel = mel.repeat(3, 1, 1) #Duplicate channels to match CoAtNet input ([3, H, W]) i.e. [3, 224, 224]
        #print(f"Tensor shape in Dataset __getitem__: {mel.shape}") #Check that tensor is [3, 224, 224]
        return mel, label

class CoAtNet(nn.Module):
    def __init__(self, in_ch, image_size, num_classes=36, out_chs=[64,96,192,384,768]):
        super(CoAtNet, self).__init__()
        self.out_chs = out_chs
        self.maxpool2d = nn.MaxPool2d(kernel_size=2, stride=2)
        self.maxpool1d = nn.MaxPool1d(kernel_size=2, stride=2)

        self.s0 = nn.Sequential(
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1),
            nn.ReLU(),
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1)
        )
        self.mlp0 = nn.Sequential(
            nn.Conv2d(in_ch, out_chs[0], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[0], out_chs[0], kernel_size=1)
        )
        self.s1 = MBConvBlock(ksize=3, input_filters=out_chs[0], output_filters=out_chs[0], image_size=image_size//2)
        self.mlp1 = nn.Sequential(
            nn.Conv2d(out_chs[0], out_chs[1], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[1], out_chs[1], kernel_size=1)
        )
        self.s2 = MBConvBlock(ksize=3, input_filters=out_chs[1], output_filters=out_chs[1], image_size=image_size//4)
        self.mlp2 = nn.Sequential(
            nn.Conv2d(out_chs[1], out_chs[2], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[2], out_chs[2], kernel_size=1)
        )
        self.s3 = ScaledDotProductAttention(out_chs[2], out_chs[2]//8, out_chs[2]//8, 8)

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self.mlp3 = nn.Sequential(
    nn.Linear(out_chs[2], out_chs[3]),
    nn.ReLU(),
    nn.Linear(out_chs[3], out_chs[3])
)
self.s4 = ScaledDotProductAttention(out_chs[3], out_chs[3]//8, out_chs[3]//8, 8)
self.mlp4 = nn.Sequential(
    nn.Linear(out_chs[3], out_chs[4]),
    nn.ReLU(),
    nn.Linear(out_chs[4], out_chs[4])
)

self.avgpool = nn.AdaptiveAvgPool1d(1) # Avg pool over the sequence length (N)
self.fc = nn.Linear(out_chs[4], num_classes)

# Define softmax for output probabilities
self.softmax = nn.Softmax(dim=1)

def forward(self, x):
    B, C, H, W = x.shape
    #print(f"Input shape: {x.shape}") # Expect [B, 3, 224, 224] #Debugging to check input shape as expected

    # Stage 0: Conv + MLP + MaxPool
    y = self.mlp0(self.s0(x))
    #print(f"After s0 and mlp0: {y.shape}") # Should keep spatial dims same as s0 output
    # show_feature_map(y, "Stage 0")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 0: {y.shape}") # spatial dims should halve here

    # Stage 1: MBConv + MLP + MaxPool
    y = self.mlp1(self.s1(y))
    #print(f"After s1 and mlp1: {y.shape}")
    #show_feature_map(y, "Stage 1")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 1: {y.shape}")

    # Stage 2: MBConv + MLP + MaxPool
    y = self.mlp2(self.s2(y))
    #print(f"After s2 and mlp2: {y.shape}")
    #show_feature_map(y, "Stage 2")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 2: {y.shape}")

    B, C, H, W = y.shape
    # Stage 3: Self Attention + MLP + MaxPool1d
    y = y.reshape(B, self.out_chs[2], -1).permute(0, 2, 1) # (B, N, C)
    #print(f"After reshape and permute for attention (stage 3): {y.shape}")
    y = self.mlp3(self.s3(y, y, y))
    #print(f"After s3 and mlp3: {y.shape}")
    y = self.maxpool1d(y.permute(0, 2, 1)).permute(0, 2, 1) # MaxPool over N
    #print(f"After maxpool1d 3: {y.shape}")

    # Stage 4: Self Attention + MLP + Global Average Pool + FC + Softmax
    y = self.mlp4(self.s4(y, y, y)) # y: (B, N, C)
    #print(f"After s4 and mlp4: {y.shape}")

    #print("Shape before permute:", y.shape) # (B, N, C)
    y = y.permute(0, 2, 1) # (B, C, N)
    #print("Shape after permute:", y.shape)

    y = self.avgpool(y) # (B, C, 1)
    #print("Shape after avgpool:", y.shape)

    y = y.squeeze(-1) # (B, C)
    #print("Shape after squeeze:", y.shape)

    y = self.fc(y) # (B, C)
    #print("Shape after fc:", y.shape)

    # Plot class probabilities for the first example in batch
    class_names = [f"Class {i}" for i in range(y.shape[1])]
    probs = y[0] # since batch size = 1

    plt.figure(figsize=(10, 4))
    plt.bar(class_names, probs.detach().cpu().numpy())
    plt.title("Class Probabilities")
    plt.xlabel("Classes")

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    plt.ylabel("Probability")
    plt.xticks(rotation=45)
    plt.show()

    return y

def main():
    tensor_folder = "/content/drive/MyDrive/ColabNotebooks/ZoomRecordings/ZoomTensorsOnly" #These are the Direct Phone record
    mel_files = [f for f in os.listdir(tensor_folder) if f.endswith(".pt")]

    # Create labels for 5 mel specs per keystroke i.e. 125 tensors per class
    labels = generate_labels_from_filenames(mel_files, files_per_class=500)
    num_classes = len(set(labels))
    print(f"Number of classes: {num_classes}")

    #Check labels
    mel_files = [f for f in os.listdir(tensor_folder) if f.endswith(".pt")]
    labels = generate_labels_from_filenames(mel_files, files_per_class=500)
    check_labels(mel_files, labels)

    # Create Dataset & DataLoader
    #dataset = MelSpectrogramDataset(tensor_folder, mel_files, labels, transform=transform)
    # Full dataset
    full_dataset = MelSpectrogramDataset(tensor_folder, mel_files, labels, transform=None)

    # Convert labels to numpy for sklearn
    labels_np = np.array(labels)
    indices = np.arange(len(labels))
    #Stratified split of data
    # First split: Train (80%) vs Temp (20%)
    train_indices, temp_indices, y_train, y_temp = train_test_split(
        indices,
        labels_np,
        test_size=0.2,
        stratify=labels_np,
        random_state=42
    )

    # # Second split: Temp → Validation (10%) and Test (10%)
    val_indices, test_indices, y_val, y_test = train_test_split(
        temp_indices,
        y_temp,
        test_size=0.5,
        stratify=y_temp,
        random_state=42
    )

    # train_indices, temp_indices = train_test_split(
    #     indices,
    #     test_size=0.2,
    #     random_state=42,
    #     shuffle=True
    # )

    # Second split: Temp → Validation (10%) and Test (10%)
    # val_indices, test_indices = train_test_split(
    #     temp_indices,
    #     test_size=0.5,
    #     random_state=42,
    #     shuffle=True
    # )

    # Create Subsets
    train_dataset = Subset(full_dataset, train_indices)
    validation_dataset = Subset(full_dataset, val_indices)
    test_dataset = Subset(full_dataset, test_indices)

    #Print the length of the dataset
    print("Total number of samples in the dataset:", len(full_dataset))
    train_ratio=0.6
    validation_ratio=0.2
    test_ratio=0.2
    dataset_size = len(full_dataset)

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train_size = int(train_ratio * dataset_size)
test_size=int(test_ratio * dataset_size)
validation_size = int(validation_ratio * dataset_size)

print("Train labels distribution:", np.bincount([label for _, label in train_dataset]))
print("Validation labels distribution:", np.bincount([label for _, label in validation_dataset]))
print("Test labels distribution:", np.bincount([label for _, label in test_dataset]))

train_loader = DataLoader(train_dataset, batch_size=32, shuffle=True, collate_fn=collate_pad)
validation_loader=DataLoader(validation_dataset, batch_size=32, shuffle=False)
test_loader=DataLoader(test_dataset, batch_size=32, shuffle=False)
print(f'Total dataset size: {dataset_size}')
print(f'Training dataset size: {len(train_dataset)}')
print(f'Validation dataset size: {len(validation_dataset)}')
print(f'Test dataset size: {len(test_dataset)}')

def count_labels(subset, name):
    subset_labels = [full_dataset[i][1] for i in subset.indices]
    label_count = Counter(subset_labels)
    #print(f"{name} labels distribution:")
    #print(sorted(label_count.items()))
    #print()

count_labels(train_dataset, "Train")
count_labels(validation_dataset, "Validation")
count_labels(test_dataset, "Test")

#The CoAtNet model is defined in it's own CoAtNet custom class above
#3 input channels, image dimensions 224x224, no. output classes for classification
input_height= 224#no. mel freq bins
model = CoAtNet(in_ch=3, image_size=input_height, num_classes=num_classes) #Calls to my Custom CoAtNet model/matches form

#Moves model to GPU or CPU for training
model.to(device)

#Loss function is set to Cross entropy loss critereon
criterion = nn.CrossEntropyLoss()
#Sets optimiser to Adam and learning rate is specified
optimizer = optim.Adam(model.parameters(), lr=0.0005)
train_losses = []
val_losses = []
train_accuracies = []
val_accuracies = []
#TRAINING LOOP#
scheduler = lr_scheduler.StepLR(optimizer, step_size=20, gamma=0.5) #LR scheduler
num_epochs = 1100
best_val_accuracy=0.0 #Track peak validation accuracy (PVA)

#Saving data to checkpoint as model keeps timing out
checkpoint_path = "/content/drive/MyDrive/CoAtNet2_checkpoint.pth"
start_epoch = 0

# Load checkpoint if it exists
if os.path.exists(checkpoint_path):
    print("Loading checkpoint...")
    checkpoint = torch.load(checkpoint_path, map_location=device)
    file_to_label=checkpoint.get('file_to_label', None)
    model.load_state_dict(checkpoint['model_state_dict'])
    optimizer.load_state_dict(checkpoint['optimizer_state_dict'])
    scheduler.load_state_dict(checkpoint['scheduler_state_dict'])
    start_epoch = checkpoint['epoch'] + 1 # resume from next epoch
    best_val_accuracy = checkpoint.get('best_val_accuracy', 0.0)
    print(f"Resumed from epoch {start_epoch}, best validation accuracy so far: {best_val_accuracy:.2f}%")
total_epochs = 1100
for epoch in range(start_epoch, num_epochs):
    model.train() #Sets the model to training mode enabling related features
    running_loss = 0.0 #Cumulative loss for the epoch
    correct = 0 #Correct prediction count
    total = 0 #Total sample count
    #Iterates over batches of training data from train_loader
    #Each batch contains images (input data) and labels (ground truth)

    for images, labels in train_loader:
        images, labels = images.to(device), labels.to(device)
        #print("Images shape:", images.shape) # e.g., torch.Size([64, 3, 224, 224])
        #print("Labels:". labels[:10]) # should be integers in [0. 35]

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#Passes the input images through the model to get predictions
    outputs = model(images)
    #Computes the loss (how far the model predictions (outputs) are from the actual labels using a loss function ca
    loss = criterion(outputs, labels)
#Clears any gradients from the previous step to avoid the accumulation of gradients
    optimizer.zero_grad()
    #Performs back propagation
    loss.backward()
    #Updates weights
    optimizer.step()
#Track the loss and accuracy
    running_loss += loss.item()#Adds current loss to total running loss
    _, predicted = outputs.max(1)#Checks how many predictions are correct
    total += labels.size(0)#No. samples processed
    correct += predicted.eq(labels).sum().item()#Number of correct predictions
#Prints the summary of each epoch
    accuracy = 100 * correct / total
    train_losses.append(running_loss / len(train_loader))
    train_accuracies.append(accuracy)
    scheduler.step() #Steps the learning rate scheduler after each epoch (not after each batch)

    torch.save({
        'epoch': epoch,
        'model_state_dict': model.state_dict(),
        'optimizer_state_dict': optimizer.state_dict(),
        'scheduler_state_dict': scheduler.state_dict(),
        'best_val_accuracy': best_val_accuracy,
        'file_to_label': {f: l for f, l in zip(mel_files, labels)}
    }, checkpoint_path)
    print(f"Checkpoint saved at epoch {epoch + 1}")

#EVALUATION LOOP#This is called immediately after the training loop within the same epoch "for" loop
    model.eval() #set the model to evaluation mode (same as Validation)
    val_loss = 0.0
    val_correct = 0
    val_total = 0
    with torch.no_grad():
        for images, labels in validation_loader:
            images, labels = images.to(device), labels.to(device)
            outputs = model(images)
            loss = criterion(outputs, labels)
            val_loss +=loss.item()

            _, predicted = outputs.max(1)
            val_total += labels.size(0)
            val_correct += predicted.eq(labels).sum().item()

    avg_val_loss = val_loss / len(validation_loader)
    val_accuracy = 100 * val_correct / val_total
    val_losses.append(avg_val_loss)
    val_accuracies.append(val_accuracy)

    # Update best validation accuracy if current is better
    if val_accuracy > best_val_accuracy:
        best_val_accuracy = val_accuracy

    print(f"Epoch [{epoch+1}/{num_epochs}] - Loss: {running_loss:.4f}, Accuracy: {accuracy:.2f}%")
    print(f"Validation - Loss: {avg_val_loss:.4f}, Accuracy: {val_accuracy:.2f}%")

#Print PVA
print(f"\nPeak Validation Accuracy: {best_val_accuracy:.2f}%")

#Plot line plots of training & validation loss & accuracy per epoch
plt.plot(train_losses, label='Train Loss')
plt.plot(val_losses, label='Validation Loss')
plt.legend()
plt.title('Loss over Epochs')
plt.show()

plt.plot(train_accuracies, label='Train Acc')
plt.plot(val_accuracies, label='Val Acc')
plt.legend()
plt.title('Accuracy over Epochs')
plt.show()

# Evaluation on test set

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    # Evaluation on test set
    model.eval()
    all_preds = []
    all_labels = []

    with torch.no_grad():
        for images, labels in test_loader:
            images, labels = images.to(device), labels.to(device)
            outputs = model(images)
            _, predicted = outputs.max(1)
            all_preds.extend(predicted.cpu().numpy())
            all_labels.extend(labels.cpu().numpy())

    # Confusion matrix
    cm = confusion_matrix(all_labels, all_preds)
    sns.heatmap(cm, annot=True, fmt='d', cmap='Blues')
    plt.title("Confusion Matrix")
    plt.xlabel("Predicted")
    plt.ylabel("True")
    plt.show()

    # Classification report
    print(classification_report(all_labels, all_preds))
    #Produce a confusion matrix to analyse the results after the test loop
    #Produce a classification report to analyse the results after the test loop

if __name__ == "__main__":
    main()
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File: q_mel_spec_656_v0.pt -> Label: 26
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File: q_mel_spec_659_v19.pt -> Label: 26
File: q_mel_spec_660_v0.pt -> Label: 26


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[illegible]

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[illegible]

[illegible]

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File: w_mel_spec_824_v19.pt -> Label: 32
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File: x_mel_spec_828_v4.pt -> Label: 33
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[illegible]

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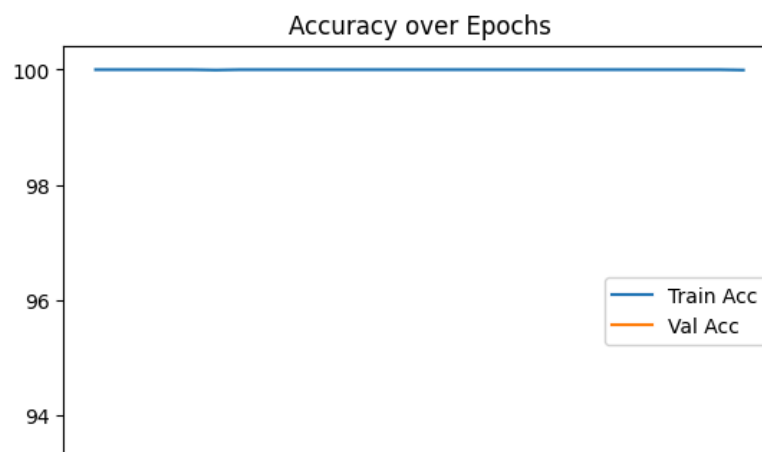
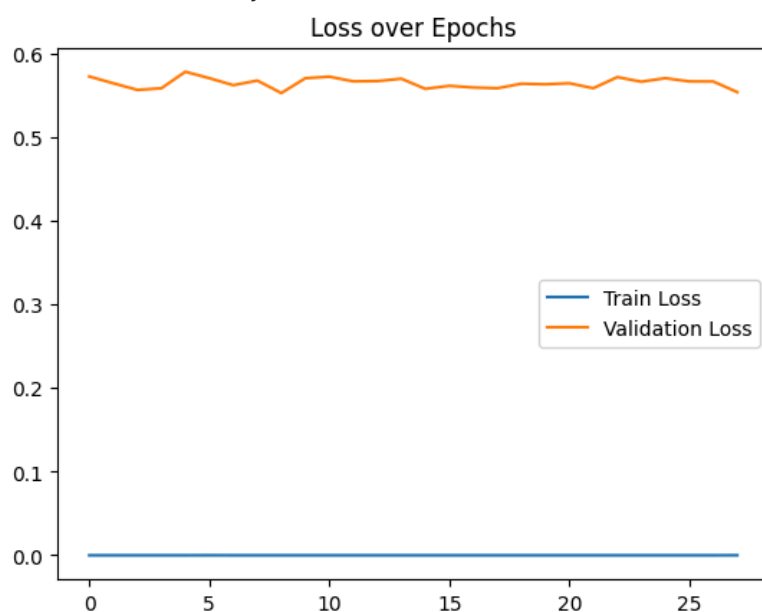
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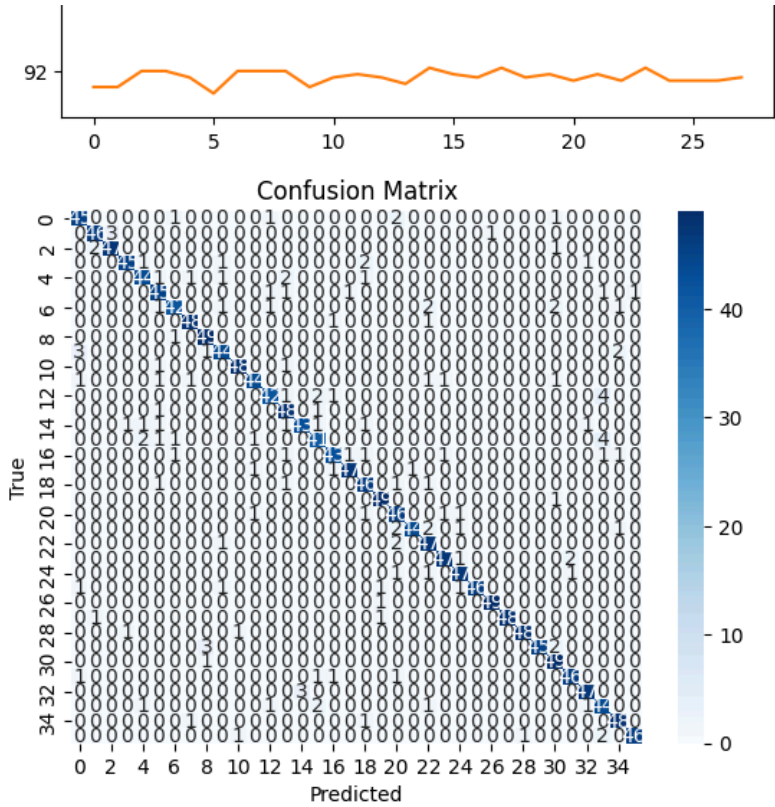
ab.research.google.com/drive/1XM8GCZiQ1Pvle

https://colab.research.google.com/drive/1XM8GCZiQ1PvlgVEyeQStt-kuUwMUptQT#scrollTo=w5_Ecpk3pl

```
Checkpoint saved at epoch 1088
Epoch [1088/1100] - Loss: 0.0014, Accuracy: 100.00%
Validation - Loss: 0.5614, Accuracy: 91.94%
Checkpoint saved at epoch 1089
Epoch [1089/1100] - Loss: 0.0012, Accuracy: 100.00%
Validation - Loss: 0.5594, Accuracy: 91.89%
Checkpoint saved at epoch 1090
Epoch [1090/1100] - Loss: 0.0014, Accuracy: 100.00%
Validation - Loss: 0.5585, Accuracy: 92.06%
Checkpoint saved at epoch 1091
Epoch [1091/1100] - Loss: 0.0016, Accuracy: 100.00%
Validation - Loss: 0.5639, Accuracy: 91.89%
Checkpoint saved at epoch 1092
Epoch [1092/1100] - Loss: 0.0012, Accuracy: 100.00%
Validation - Loss: 0.5632, Accuracy: 91.94%
Checkpoint saved at epoch 1093
Epoch [1093/1100] - Loss: 0.0015, Accuracy: 100.00%
Validation - Loss: 0.5645, Accuracy: 91.83%
Checkpoint saved at epoch 1094
Epoch [1094/1100] - Loss: 0.0016, Accuracy: 100.00%
Validation - Loss: 0.5585, Accuracy: 91.94%
Checkpoint saved at epoch 1095
Epoch [1095/1100] - Loss: 0.0012, Accuracy: 100.00%
Validation - Loss: 0.5718, Accuracy: 91.83%
Checkpoint saved at epoch 1096
Epoch [1096/1100] - Loss: 0.0014, Accuracy: 100.00%
Validation - Loss: 0.5663, Accuracy: 92.06%
Checkpoint saved at epoch 1097
Epoch [1097/1100] - Loss: 0.0046, Accuracy: 100.00%
Validation - Loss: 0.5705, Accuracy: 91.83%
Checkpoint saved at epoch 1098
Epoch [1098/1100] - Loss: 0.0012, Accuracy: 100.00%
Validation - Loss: 0.5667, Accuracy: 91.83%
Checkpoint saved at epoch 1099
Epoch [1099/1100] - Loss: 0.0018, Accuracy: 100.00%
Validation - Loss: 0.5666, Accuracy: 91.83%
Checkpoint saved at epoch 1100
Epoch [1100/1100] - Loss: 0.0309, Accuracy: 99.99%
Validation - Loss: 0.5539, Accuracy: 91.89%
```

Peak Validation Accuracy: 92.50%





	precision	recall	f1-score	support
0	0.88	0.90	0.89	50
1	0.94	0.92	0.93	50
2	0.94	0.94	0.94	50
3	0.96	0.90	0.93	50
4	0.90	0.88	0.89	50
5	0.85	0.90	0.87	50
6	0.91	0.84	0.88	50
7	0.94	0.96	0.95	50
8	0.91	0.98	0.94	50
9	0.90	0.88	0.89	50
10	0.96	0.96	0.96	50
11	0.94	0.88	0.91	50
12	0.91	0.84	0.88	50
13	0.86	0.96	0.91	50
14	0.93	0.86	0.90	50
15	0.85	0.82	0.84	50
16	0.91	0.86	0.89	50
17	0.96	0.94	0.95	50
18	0.87	0.92	0.89	50
19	0.94	0.98	0.96	50
20	0.84	0.92	0.88	50
21	0.98	0.88	0.93	50
22	0.84	0.94	0.89	50
23	0.94	0.94	0.94	50
24	0.92	0.94	0.93	50
25	1.00	0.92	0.96	50
26	0.98	0.98	0.98	50
27	1.00	0.96	0.98	50
28	0.98	0.96	0.97	50
29	1.00	0.90	0.95	50
30	0.86	0.98	0.92	50
31	0.94	0.92	0.93	50
32	0.94	0.94	0.94	50
33	0.79	0.88	0.83	50
34	0.91	0.96	0.93	50
35	0.98	0.92	0.95	50
accuracy			0.92	1800
macro avg	0.92	0.92	0.92	1800
weighted avg	0.92	0.92	0.92	1800


```

#ZOOM RANDOM 1E-3 500 EPOCHS THEN 1100 EPOCHS

#Have commented out a lot of print statements to try and save time
#03/07/25 Code updated to remove z score norm and check channel dims
#LR scheduler added
#Stratified split not random
#27/06/25 PVA calcs added and to print at end of all training done

import os
import re
import torch
import numpy as np
import torch.nn as nn
import torch.optim as optim
from collections import Counter
from torch.utils.data import Dataset, DataLoader
from torchvision import transforms
import torchvision.models
from sklearn.model_selection import train_test_split
import timm
import matplotlib.pyplot as plt
from google.colab import files
uploaded = files.upload()
import sys
from math import sqrt
#From [name of imported file] import [name of class within that file]
from MBConvBlock import MBConvBlock
#From [name of imported file] import [name of class within that file]
from ScaledDotProductAttention import ScaledDotProductAttention
sys.path.append('.')
from torch.utils.data import random_split
from sklearn.metrics import confusion_matrix
import seaborn as sns
from sklearn.metrics import classification_report
from torch.utils.data import Subset
from torch.optim import lr_scheduler
from torch.nn.functional import pad
from torch.optim import lr_scheduler
import random

# Set device to GPU if available
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
def set_seed(seed=42):
    random.seed(seed)
    np.random.seed(seed)
    torch.manual_seed(seed)
    torch.cuda.manual_seed(seed)
    torch.backends.cudnn.deterministic = True
    torch.backends.cudnn.benchmark = False

set_seed(42)
#The pre-processing pipeline already performed z-score normalisation and channel changes, therefore
#the tensors being loaded are already shape [1, 224, 224]

def extract_number(filename):
    """Extracts numbers for sorting files like 'file_23.pt'."""
    match = re.search(r'(\d+)', filename)
    return int(match.group(1)) if match else 0

def generate_labels_from_filenames(mel_spectrogram_files, files_per_class=500):
    """
    Generates integer class labels based on file order.
    Example: 0 for first 25 files, 1 for next 25, etc.
    """
    mel_spectrogram_files.sort(key=extract_number)
    labels = [idx // files_per_class for idx in range(len(mel_spectrogram_files))]

    for idx, file in enumerate(mel_spectrogram_files):
        print(f"File: {file}, Label: {labels[idx]}")
    return labels

def check_labels(mel_spectrogram_files, labels):
    print("Checking file-label mapping:")
    for file, label in zip(mel_spectrogram_files, labels):
        print(f"File: {file} -> Label: {label}")

```

```

def collate_pad(batch):
    tensors, labels = zip(*batch)

    # Find max time dimension
    max_len = max(tensor.shape[-1] for tensor in tensors)

    # Pad all tensors to max_len
    padded_tensors = []
    for tensor in tensors:
        pad_len = max_len - tensor.shape[-1]
        padded_tensor = pad(tensor, (0, pad_len)) # pad last dimension
        padded_tensors.append(padded_tensor)

    return torch.stack(padded_tensors), torch.tensor(labels)

class MelSpectrogramDataset(Dataset):
    def __init__(self, mel_spectrogram_dir, mel_spectrogram_files, labels, transform=None):
        self.mel_spectrogram_files = mel_spectrogram_files
        self.labels = labels
        self.transform = transform
        self.mel_spectrogram_dir = mel_spectrogram_dir

        if len(self.mel_spectrogram_files) != len(self.labels):
            raise ValueError("Mismatch between number of files and labels.")

    def __len__(self):
        return len(self.mel_spectrogram_files)

    def __getitem__(self, idx):
        file_name = self.mel_spectrogram_files[idx]
        path = os.path.join(self.mel_spectrogram_dir, file_name)

        mel = torch.load(path)
        label = int(self.labels[idx]) # Ensure label is integer
        #shouldn't need this next line anymore as my tensors should be
        #shape 1, 224, 224
        #if len(mel.shape) == 2:
        #    mel = mel.unsqueeze(0) # [1, H, W] - #✅ # Add channel dimensions i.e. change from [224, 224] to [1, 224, 224]

        # if self.transform:
        #    mel = nn.functional.interpolate(mel.unsqueeze(0), size=(224, 224), mode='bilinear', align_corners=False).squeeze(0)
        #    mel = self.transform(mel) # Resize + Normalize

        if mel.shape[0] == 1:
            mel = mel.repeat(3, 1, 1) #Duplicate channels to match CoAtNet input ([3, H, W]) i.e. [3, 224, 224]
        #print(f"Tensor shape in Dataset __getitem__: {mel.shape}") #Check that tensor is [3, 224, 224]
        return mel, label

class CoAtNet(nn.Module):
    def __init__(self, in_ch, image_size, num_classes=36, out_chs=[64,96,192,384,768]):
        super(CoAtNet, self).__init__()
        self.out_chs = out_chs
        self.maxpool2d = nn.MaxPool2d(kernel_size=2, stride=2)
        self.maxpool1d = nn.MaxPool1d(kernel_size=2, stride=2)

        self.s0 = nn.Sequential(
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1),
            nn.ReLU(),
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1)
        )
        self.mlp0 = nn.Sequential(
            nn.Conv2d(in_ch, out_chs[0], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[0], out_chs[0], kernel_size=1)
        )
        self.s1 = MBConvBlock(ksize=3, input_filters=out_chs[0], output_filters=out_chs[0], image_size=image_size//2)
        self.mlp1 = nn.Sequential(
            nn.Conv2d(out_chs[0], out_chs[1], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[1], out_chs[1], kernel_size=1)
        )
        self.s2 = MBConvBlock(ksize=3, input_filters=out_chs[1], output_filters=out_chs[1], image_size=image_size//4)
        self.mlp2 = nn.Sequential(
            nn.Conv2d(out_chs[1], out_chs[2], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[2], out_chs[2], kernel_size=1)

```

```

)
self.s3 = ScaledDotProductAttention(out_chs[2], out_chs[2]//8, out_chs[2]//8, 8)
self.mlp3 = nn.Sequential(
    nn.Linear(out_chs[2], out_chs[3]),
    nn.ReLU(),
    nn.Linear(out_chs[3], out_chs[3])
)
self.s4 = ScaledDotProductAttention(out_chs[3], out_chs[3]//8, out_chs[3]//8, 8)
self.mlp4 = nn.Sequential(
    nn.Linear(out_chs[3], out_chs[4]),
    nn.ReLU(),
    nn.Linear(out_chs[4], out_chs[4])
)

self.avgpool = nn.AdaptiveAvgPool1d(1) # Avg pool over the sequence length (N)
self.fc = nn.Linear(out_chs[4], num_classes)

# Define softmax for output probabilities
self.softmax = nn.Softmax(dim=1)

def forward(self, x):
    B, C, H, W = x.shape
    #print(f"Input shape: {x.shape}") # Expect [B, 3, 224, 224] #Debugging to check input shape as expected

    # Stage 0: Conv + MLP + MaxPool
    y = self.mlp0(self.s0(x))
    #print(f"After s0 and mlp0: {y.shape}") # Should keep spatial dims same as s0 output
    # show_feature_map(y, "Stage 0")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 0: {y.shape}") # spatial dims should halve here

    # Stage 1: MBConv + MLP + MaxPool
    y = self.mlp1(self.s1(y))
    #print(f"After s1 and mlp1: {y.shape}")
    #show_feature_map(y, "Stage 1")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 1: {y.shape}")

    # Stage 2: MBConv + MLP + MaxPool
    y = self.mlp2(self.s2(y))
    #print(f"After s2 and mlp2: {y.shape}")
    #show_feature_map(y, "Stage 2")
    y = self.maxpool2d(y)
    #print(f"After maxpool2d 2: {y.shape}")

    B, C, H, W = y.shape
    # Stage 3: Self Attention + MLP + MaxPool1d
    y = y.reshape(B, self.out_chs[2], -1).permute(0, 2, 1) # (B, N, C)
    #print(f"After reshape and permute for attention (stage 3): {y.shape}")
    y = self.mlp3(self.s3(y, y))
    #print(f"After s3 and mlp3: {y.shape}")
    y = self.maxpool1d(y.permute(0, 2, 1)).permute(0, 2, 1) # MaxPool over N
    #print(f"After maxpool1d 3: {y.shape}")

    # Stage 4: Self Attention + MLP + Global Average Pool + FC + Softmax
    y = self.mlp4(self.s4(y, y)) # y: (B, N, C)
    #print(f"After s4 and mlp4: {y.shape}")

    #print("Shape before permute:", y.shape) # (B, N, C)
    y = y.permute(0, 2, 1) # (B, C, N)
    #print("Shape after permute:", y.shape)

    y = self.avgpool(y) # (B, C, 1)
    #print("Shape after avgpool:", y.shape)

    y = y.squeeze(-1) # (B, C)
    #print("Shape after squeeze:", y.shape)

    y = self.fc(y) # (B, C)
    #print("Shape after fc:", y.shape)

    # Plot class probabilities for the first example in batch
    class_names = [f"Class {i}" for i in range(y.shape[1])]
    probs = y[0] # since batch size = 1

    #plt.figure(figsize=(10, 4))

```

```

        plt.bar(class_names, probs.detach().cpu().numpy())
        plt.title("Class Probabilities")
        plt.xlabel("Classes")
        plt.ylabel("Probability")
        plt.xticks(rotation=45)
        plt.show()

    return y

def main():
    tensor_folder = "/content/drive/MyDrive/ColabNotebooks/ZoomRecordings/ZoomTensorsOnly" #These are the Direct Phone records
    mel_files = [f for f in os.listdir(tensor_folder) if f.endswith(".pt")]

    # Create labels for 5 mel specs per keystroke i.e. 125 tensors per class
    labels = generate_labels_from_filenames(mel_files, files_per_class=500)
    num_classes = len(set(labels))
    print(f"Number of classes: {num_classes}")

    #Check labels
    mel_files = [f for f in os.listdir(tensor_folder) if f.endswith(".pt")]
    labels = generate_labels_from_filenames(mel_files, files_per_class=500)
    check_labels(mel_files, labels)

    # Create Dataset & DataLoader
    #dataset = MelSpectrogramDataset(tensor_folder, mel_files, labels, transform=transform)
    # Full dataset
    full_dataset = MelSpectrogramDataset(tensor_folder, mel_files, labels, transform=None)

    # Convert labels to numpy for sklearn
    labels_np = np.array(labels)
    indices = np.arange(len(labels))
    #Stratified split of data
    # First split: Train (80%) vs Temp (20%)
    # train_indices, temp_indices, y_train, y_temp = train_test_split(
    #     indices,
    #     labels_np,
    #     test_size=0.2,
    #     stratify=labels_np,
    #     random_state=42
    # )

    # # Second split: Temp → Validation (10%) and Test (10%)
    # val_indices, test_indices, y_val, y_test = train_test_split(
    #     temp_indices,
    #     y_temp,
    #     test_size=0.5,
    #     stratify=y_temp,
    #     random_state=42
    # )

    train_indices, temp_indices = train_test_split(
        indices,
        test_size=0.2,
        random_state=42,
        shuffle=True
    )

    # Second split: Temp → Validation (10%) and Test (10%)
    val_indices, test_indices = train_test_split(
        temp_indices,
        test_size=0.5,
        random_state=42,
        shuffle=True
    )

    # Create Subsets
    train_dataset = Subset(full_dataset, train_indices)
    validation_dataset = Subset(full_dataset, val_indices)
    test_dataset = Subset(full_dataset, test_indices)

    #Print the length of the dataset
    print("Total number of samples in the dataset:", len(full_dataset))

```

```

train_ratio=0.6
validation_ratio=0.2
test_ratio=0.2
dataset_size = len(full_dataset)
train_size = int(train_ratio * dataset_size)
test_size=int(test_ratio * dataset_size)
validation_size = int(validation_ratio * dataset_size)

print("Train labels distribution:", np.bincount([label for _, label in train_dataset]))
print("Validation labels distribution:", np.bincount([label for _, label in validation_dataset]))
print("Test labels distribution:", np.bincount([label for _, label in test_dataset]))

train_loader = DataLoader(train_dataset, batch_size=32, shuffle=True, collate_fn=collate_pad)
validation_loader=DataLoader(validation_dataset, batch_size=32, shuffle=False)
test_loader=DataLoader(test_dataset, batch_size=32, shuffle=False)
print(f'Total dataset size: {dataset_size}')
print(f'Training dataset size: {len(train_dataset)}')
print(f'Validation dataset size: {len(validation_dataset)}')
print(f'Test dataset size: {len(test_dataset)}')

def count_labels(subset, name):
    subset_labels = [full_dataset[i][1] for i in subset.indices]
    label_count = Counter(subset_labels)
    #print(f"{name} labels distribution:")
    #print(sorted(label_count.items()))
    #print()

count_labels(train_dataset, "Train")
count_labels(validation_dataset, "Validation")
count_labels(test_dataset, "Test")

#The CoAtNet model is defined in it's own CoAtNet custom class above
#3 input channels, image dimensions 224x224, no. output classes for classification
input_height= 224#no. mel freq bins
model = CoAtNet(in_ch=3, image_size=input_height, num_classes=num_classes) #Calls to my Custom CoAtNet model/matches form:

#Moves model to GPU or CPU for training
model.to(device)

#Loss function is set to Cross entropy loss critereon
criterion = nn.CrossEntropyLoss()
#Sets optimiser to Adam and learning rate is specified
optimizer = optim.Adam(model.parameters(), lr=0.001)
train_losses = []
val_losses = []
train_accuracies = []
val_accuracies = []
#TRAINING LOOP#
scheduler = lr_scheduler.StepLR(optimizer, step_size=20, gamma=0.5) #LR scheduler
num_epochs = 500
best_val_accuracy=0.0 #Track peak validation accuracy (PVA)

#Saving data to checkpoint as model keeps timing out
checkpoint_path = "/content/drive/MyDrive/CoAtNet454984454262_checkpoint.pth"
start_epoch = 0

# Load checkpoint if it exists
if os.path.exists(checkpoint_path):
    print("Loading checkpoint...")
    checkpoint = torch.load(checkpoint_path, map_location=device)
    file_to_label=checkpoint.get('file_to_label', None)
    model.load_state_dict(checkpoint['model_state_dict'])
    optimizer.load_state_dict(checkpoint['optimizer_state_dict'])
    scheduler.load_state_dict(checkpoint['scheduler_state_dict'])
    start_epoch = checkpoint['epoch'] + 1 # resume from next epoch
    best_val_accuracy = checkpoint.get('best_val_accuracy', 0.0)
    print(f"Resumed from epoch {start_epoch}, best validation accuracy so far: {best_val_accuracy:.2f}%")
total_epochs = 500
for epoch in range(start_epoch, num_epochs):
    model.train() #Sets the model to training mode enabling related features
    running_loss = 0.0 #Cumulative loss for the epoch
    correct = 0 #Correct prediction count
    total = 0 #Total sample count
#Iterates over batches of training data from train_loader
#Each batch contains images (input data) and labels (ground truth)

```

```

    for images, labels in train_loader:
        images, labels = images.to(device), labels.to(device)
        #print("Images shape:", images.shape) # e.g., torch.Size([64, 3, 224, 224])
        #print("Labels:", labels[:10]) # should be integers in [0, 35]
#Passes the input images through the model to get predictions
    outputs = model(images)
    #Computes the loss (how far the model predictions (outputs) are from the actual labels using a loss function ca:
    loss = criterion(outputs, labels)
#Clears any gradients from the previous step to avoid the accumulation of gradients
    optimizer.zero_grad()
    #Performs back propagation
    loss.backward()
    #Updates weights
    optimizer.step()
#Track the loss and accuracy
    running_loss += loss.item()#Adds current loss to total running loss
    _, predicted = outputs.max(1)#Checks how many predictions are correct
    total += labels.size(0)#No. samples processed
    correct += predicted.eq(labels).sum().item()#Number of correct predictions
#Prints the summary of each epoch
    accuracy = 100 * correct / total
    train_losses.append(running_loss / len(train_loader))
    train_accuracies.append(accuracy)
    scheduler.step() #Steps the learning rate scheduler after each epoch (not after each batch)

    torch.save({
        'epoch': epoch,
        'model_state_dict': model.state_dict(),
        'optimizer_state_dict': optimizer.state_dict(),
        'scheduler_state_dict': scheduler.state_dict(),
        'best_val_accuracy': best_val_accuracy,
        'file_to_label': {f: l for f, l in zip(mel_files, labels)}
    }, checkpoint_path)
    print(f"Checkpoint saved at epoch {epoch + 1}")

#EVALUATION LOOP#This is called immediately after the training loop within the same epoch "for" loop
    model.eval() #set the model to evaluation mode (same as Validation)
    val_loss = 0.0
    val_correct = 0
    val_total = 0
    with torch.no_grad():
        for images, labels in validation_loader:
            images, labels = images.to(device), labels.to(device)
            outputs = model(images)
            loss = criterion(outputs, labels)
            val_loss +=loss.item()

            _, predicted = outputs.max(1)
            val_total += labels.size(0)
            val_correct += predicted.eq(labels).sum().item()

    avg_val_loss = val_loss / len(validation_loader)
    val_accuracy = 100 * val_correct / val_total
    val_losses.append(avg_val_loss)
    val_accuracies.append(val_accuracy)

    # Update best validation accuracy if current is better
    if val_accuracy > best_val_accuracy:
        best_val_accuracy = val_accuracy

    print(f"Epoch [{epoch+1}/{num_epochs}] - Loss: {running_loss:.4f}, Accuracy: {accuracy:.2f}%")
    print(f"Validation - Loss: {avg_val_loss:.4f}, Accuracy: {val_accuracy:.2f}%")

#Print PVA
    print(f"\nPeak Validation Accuracy: {best_val_accuracy:.2f}%")

    #Plot line plots of training & validation loss & accuracy per epoch
    plt.plot(train_losses, label='Train Loss')
    plt.plot(val_losses, label='Validation Loss')
    plt.legend()
    plt.title('Loss over Epochs')
    plt.show()

    plt.plot(train_accuracies, label='Train Acc')
    plt.plot(val_accuracies, label='Val Acc')

```

```

plt.legend()
plt.title('Accuracy over Epochs')
plt.show()

# Evaluation on test set
model.eval()
all_preds = []
all_labels = []

with torch.no_grad():
    for images, labels in test_loader:
        images, labels = images.to(device), labels.to(device)
        outputs = model(images)
        _, predicted = outputs.max(1)
        all_preds.extend(predicted.cpu().numpy())
        all_labels.extend(labels.cpu().numpy())

# Confusion matrix
cm = confusion_matrix(all_labels, all_preds)
sns.heatmap(cm, annot=True, fmt='d', cmap='Blues')
plt.title("Confusion Matrix")
plt.xlabel("Predicted")
plt.ylabel("True")
plt.show()

# Classification report
print(classification_report(all_labels, all_preds))
#Produce a confusion matrix to analyse the results after the test loop
#Produce a classification report to analyse the results after the test loop

#zoom random 5e-4 500 epochs then 1100

#Have commented out a lot of print statements to try and save time
#03/07/25 Code updated to remove z score norm and check channel dims
#LR scheduler added
#Stratified split not random
#27/06/25 PVA calcs added and to print at end of all training done

import os
import re
import torch
import numpy as np
import torch.nn as nn
import torch.optim as optim
from collections import Counter
from torch.utils.data import Dataset, DataLoader
from torchvision import transforms
import torchvision.models
from sklearn.model_selection import train_test_split
import timm
import matplotlib.pyplot as plt
from google.colab import files
uploaded = files.upload()
import sys
from math import sqrt
#From [name of imported file] import [name of class within that file]
from MBConvBlock import MBConvBlock
#From [name of imported file] import [name of class within that file]
from ScaledDotProductAttention import ScaledDotProductAttention
sys.path.append('.')
from torch.utils.data import random_split
from sklearn.metrics import confusion_matrix
import seaborn as sns
from sklearn.metrics import classification_report
from torch.utils.data import Subset
from torch.optim import lr_scheduler
from torch.nn.functional import pad
from torch.optim import lr_scheduler
import random

# Set device to GPU if available
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
def set_seed(seed=42):
    random.seed(seed)
    np.random.seed(seed)
    torch.manual_seed(seed)

```

```

torch.cuda.manual_seed(seed)
torch.backends.cudnn.deterministic = True
torch.backends.cudnn.benchmark = False

set_seed(42)
#The pre-processing pipeline already performed z-score normalisation and channel changes, therefore
#the tensors being loaded are already shape [1, 224, 224]

def extract_number(filename):
    """Extracts numbers for sorting files like 'file_23.pt'."""
    match = re.search(r'(\d+)', filename)
    return int(match.group(1)) if match else 0

def generate_labels_from_filenames(mel_spectrogram_files, files_per_class=500):
    """
    Generates integer class labels based on file order.
    Example: 0 for first 25 files, 1 for next 25, etc.
    """
    mel_spectrogram_files.sort(key=extract_number)
    labels = [idx // files_per_class for idx in range(len(mel_spectrogram_files))]

    for idx, file in enumerate(mel_spectrogram_files):
        print(f"File: {file}, Label: {labels[idx]}")
    return labels

def check_labels(mel_spectrogram_files, labels):
    print("Checking file-label mapping:")
    for file, label in zip(mel_spectrogram_files, labels):
        print(f"File: {file} -> Label: {label}")

def collate_pad(batch):
    tensors, labels = zip(*batch)

    # Find max time dimension
    max_len = max(tensor.shape[-1] for tensor in tensors)

    # Pad all tensors to max_len
    padded_tensors = []
    for tensor in tensors:
        pad_len = max_len - tensor.shape[-1]
        padded_tensor = pad(tensor, (0, pad_len)) # pad last dimension
        padded_tensors.append(padded_tensor)

    return torch.stack(padded_tensors), torch.tensor(labels)

class MelSpectrogramDataset(Dataset):
    def __init__(self, mel_spectrogram_dir, mel_spectrogram_files, labels, transform=None):
        self.mel_spectrogram_files = mel_spectrogram_files
        self.labels = labels
        self.transform = transform
        self.mel_spectrogram_dir = mel_spectrogram_dir

        if len(self.mel_spectrogram_files) != len(self.labels):
            raise ValueError("Mismatch between number of files and labels.")

    def __len__(self):
        return len(self.mel_spectrogram_files)

    def __getitem__(self, idx):
        file_name = self.mel_spectrogram_files[idx]
        path = os.path.join(self.mel_spectrogram_dir, file_name)

        mel = torch.load(path)
        label = int(self.labels[idx]) # Ensure label is integer
        #shouldn't need this next line anymore as my tensors should be
        #shape 1, 224, 224
        #if len(mel.shape) == 2:
        #    mel = mel.unsqueeze(0) # [1, H, W] - # ☒ # Add channel dimensions i.e. change from [224, 224] to [1, 224, 2:

        # if self.transform:
        #    mel = nn.functional.interpolate(mel.unsqueeze(0), size=(224, 224), mode='bilinear', align_corners=False).squeeze()
        #    mel = self.transform(mel) # Resize + Normalize

        if mel.shape[0] == 1:
            mel = mel.repeat(3, 1, 1) #Duplicate channels to match CoAtNet input ([3, H, W]) i.e. [3, 224, 224]
            #print(f"Tensor shape in Dataset __getitem__: {mel.shape}") #Check that tensor is [3, 224, 224]
        return mel, label

```



```

class CoAtNet(nn.Module):
    def __init__(self, in_ch, image_size, num_classes=36, out_chs=[64,96,192,384,768]):
        super(CoAtNet, self).__init__()
        self.out_chs = out_chs
        self.maxpool2d = nn.MaxPool2d(kernel_size=2, stride=2)
        self.maxpool1d = nn.MaxPool1d(kernel_size=2, stride=2)

        self.s0 = nn.Sequential(
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1),
            nn.ReLU(),
            nn.Conv2d(in_ch, in_ch, kernel_size=3, padding=1)
        )
        self.mlp0 = nn.Sequential(
            nn.Conv2d(in_ch, out_chs[0], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[0], out_chs[0], kernel_size=1)
        )
        self.s1 = MBConvBlock(ksize=3, input_filters=out_chs[0], output_filters=out_chs[0], image_size=image_size//2)
        self.mlp1 = nn.Sequential(
            nn.Conv2d(out_chs[0], out_chs[1], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[1], out_chs[1], kernel_size=1)
        )
        self.s2 = MBConvBlock(ksize=3, input_filters=out_chs[1], output_filters=out_chs[1], image_size=image_size//4)
        self.mlp2 = nn.Sequential(
            nn.Conv2d(out_chs[1], out_chs[2], kernel_size=1),
            nn.ReLU(),
            nn.Conv2d(out_chs[2], out_chs[2], kernel_size=1)
        )
        self.s3 = ScaledDotProductAttention(out_chs[2], out_chs[2]//8, out_chs[2]//8, 8)
        self.mlp3 = nn.Sequential(
            nn.Linear(out_chs[2], out_chs[3]),
            nn.ReLU(),
            nn.Linear(out_chs[3], out_chs[3])
        )
        self.s4 = ScaledDotProductAttention(out_chs[3], out_chs[3]//8, out_chs[3]//8, 8)
        self.mlp4 = nn.Sequential(
            nn.Linear(out_chs[3], out_chs[4]),
            nn.ReLU(),
            nn.Linear(out_chs[4], out_chs[4])
        )

        self.avgpool = nn.AdaptiveAvgPool1d(1) # Avg pool over the sequence length (N)
        self.fc = nn.Linear(out_chs[4], num_classes)

        # Define softmax for output probabilities
        self.softmax = nn.Softmax(dim=1)

    def forward(self, x):
        B, C, H, W = x.shape
        #print(f"Input shape: {x.shape}") # Expect [B, 3, 224, 224] #Debugging to check input shape as expected

        # Stage 0: Conv + MLP + MaxPool
        y = self.mlp0(self.s0(x))
        #print(f"After s0 and mlp0: {y.shape}") # Should keep spatial dims same as s0 output
        # show_feature_map(y, "Stage 0")
        y = self.maxpool2d(y)
        #print(f"After maxpool2d 0: {y.shape}") # spatial dims should halve here

        # Stage 1: MBConv + MLP + MaxPool
        y = self.mlp1(self.s1(y))
        #print(f"After s1 and mlp1: {y.shape}")
        #show_feature_map(y, "Stage 1")
        y = self.maxpool2d(y)
        #print(f"After maxpool2d 1: {y.shape}")

        # Stage 2: MBConv + MLP + MaxPool
        y = self.mlp2(self.s2(y))
        #print(f"After s2 and mlp2: {y.shape}")
        #show_feature_map(y, "Stage 2")
        y = self.maxpool2d(y)
        #print(f"After maxpool2d 2: {y.shape}")

        B, C, H, W = y.shape
        # Stage 3: Self Attention + MLP + MaxPool1d

```