

```

#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 c
#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)

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Resources X

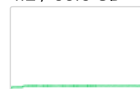
...

You are subscribed to Colab Pro+. [Learn more](#)
 Available: 852.2 compute units
 Usage rate: approximately 13.72 per hour
 You have 2 active sessions.

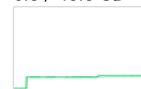
[Manage sessions](#)

Python 3 Google Compute Engine backend (GPU)
 Showing resources from 06:39 to 21:43

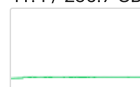
System RAM
 4.2 / 83.5 GB



GPU RAM
 6.8 / 40.0 GB



Disk
 41.4 / 235.7 GB



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# 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):
        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.

        # if self.transform:
        #    mel = nn.functional.interpolate(mel.unsqueeze(0), size=(224, 224))
        #    mel = self.transform(mel) # Resize + Normalize

        if mel.shape[0] == 1:
            mel = mel.repeat(3, 1, 1) #Duplicate channels to match CoAtNet input
        #print(f"Tensor shape in Dataset __getitem__: {mel.shape}") #Check that it's correct
        return mel, label

class CoAtNet(nn.Module):
    def __init__(self, in_ch, image_size, num_classes=36, out_chs=[64,96,192,384]):
        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[1])
        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[2])
        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)
        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)
        self.mlp4 = nn.Sequential(
            nn.Linear(out_chs[3], out_chs[3]),
            nn.ReLU(),
            nn.Linear(out_chs[3], out_chs[3])
        )

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        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
    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 t

    # Stage 0: Conv + MLP + MaxPool
    y = self.mlp0(self.s0(x))
    #print(f"After s0 and mlp0: {y.shape}") # Should keep spatial dims same
    # 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")
    #plt.ylabel("Probability")
    #plt.xticks(rotation=45)
    #plt.show()

    return y

def main():
    tensor_folder = "/content/drive/MyDrive/ColabNotebooks/LaptopRecordings/MelSp
    mel_files = [f for f in os.listdir(tensor_folder) if f.endswith(".pt")]

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# 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=
# Full dataset
full_dataset = MelSpectrogramDataset(tensor_folder, mel_files, labels, transform=

# 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_data_loader.iter_instances()]))
print("Validation labels distribution:", np.bincount([label for _, label in validation_data_loader.iter_instances()]))
print("Test labels distribution:", np.bincount([label for _, label in test_data_loader.iter_instances()]))

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

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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) #CoAtNet

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

#Loss function is set to Cross entropy loss criterion
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/CoAtNetNew23484555756549894_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)

    train_losses = checkpoint.get('train_losses', [])
    val_losses = checkpoint.get('val_losses', [])
    train_accuracies = checkpoint.get('train_accuracies', [])
    val_accuracies = checkpoint.get('val_accuracies', [])

    # FIX: Truncate longer list to match shortest one
    min_len = min(len(train_losses), len(val_losses))
    train_losses = train_losses[:min_len]
    val_losses = val_losses[:min_len]
    train_accuracies = train_accuracies[:min_len]
    val_accuracies = val_accuracies[:min_len]

    print(f"Resumed from epoch {start_epoch}, best validation accuracy so far {best_val_accuracy}")
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, 10]
#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 ground truth labels)
        loss = criterion(outputs, labels)
        #Computes the loss (how far the model predictions (outputs) are from the ground truth labels)

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#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 necessary)

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,
    'train_losses': train_losses,
    'train_accuracies': train_accuracies,
    'val_losses': val_losses,
    'val_accuracies': val_accuracies,
    '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 function
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: {val_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 = []

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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: T_mel_spec_741_v3.pt -> Label: 29
File: T_mel_spec_741_v11.pt -> Label: 29
File: T_mel_spec_741_v1.pt -> Label: 29
File: T_mel_spec_741_v18.pt -> Label: 29
File: T_mel_spec_741_v7.pt -> Label: 29
File: T_mel_spec_742_v0.pt -> Label: 29
File: T_mel_spec_742_v18.pt -> Label: 29
File: T_mel_spec_742_v16.pt -> Label: 29
File: T_mel_spec_742_v17.pt -> Label: 29
File: T_mel_spec_742_v19.pt -> Label: 29
File: T_mel_spec_742_v14.pt -> Label: 29
File: T_mel_spec_742_v9.pt -> Label: 29
File: T_mel_spec_742_v5.pt -> Label: 29
File: T_mel_spec_742_v6.pt -> Label: 29
File: T_mel_spec_742_v1.pt -> Label: 29
File: T_mel_spec_742_v3.pt -> Label: 29
File: T_mel_spec_742_v13.pt -> Label: 29
File: T_mel_spec_742_v7.pt -> Label: 29
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File: T_mel_spec_742_v11.pt -> Label: 29
File: T_mel_spec_742_v4.pt -> Label: 29
File: T_mel_spec_742_v10.pt -> Label: 29
File: T_mel_spec_742_v12.pt -> Label: 29
File: T_mel_spec_742_v2.pt -> Label: 29
File: T_mel_spec_743_v14.pt -> Label: 29
File: T_mel_spec_743_v7.pt -> Label: 29
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File: W_mel_spec_825_v19.pt -> Label: 32
File: W_mel_spec_825_v18.pt -> Label: 32
File: W_mel_spec_825_v4.pt -> Label: 32
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File: Z_mel_spec_899_v12.pt -> Label: 35

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File: Z_mel_spec_899_v0.pt -> Label: 35
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File: Z_mel_spec_900_v1.pt -> Label: 35
Total number of samples in the dataset: 18000
Train labels distribution: [394 419 390 412 393 399 397 398 395 395 403 401 3
 399 390 402 408 385 411 397 409 398 392 407 401 401 403 403 409 407 397]
Validation labels distribution: [49 43 48 48 54 47 53 51 48 51 52 59 52 47 57
 57 36 50 52 52 55 44 46 52 42 44 56]
Test labels distribution: [57 38 62 40 53 54 50 51 57 54 45 40 57 50 43 62 41
 46 55 52 56 41 44 55 51 45 49 49 47]
Total dataset size: 18000
Training dataset size: 14400
Validation dataset size: 1800
Test dataset size: 1800
Loading checkpoint...
Resumed from epoch 500, best validation accuracy so far: 99.22%
Checkpoint saved at epoch 501
Epoch [501/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 502
Epoch [502/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 503
Epoch [503/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0981, Accuracy: 99.17%
Checkpoint saved at epoch 504
Epoch [504/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.17%
Checkpoint saved at epoch 505
Epoch [505/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0913, Accuracy: 99.17%
Checkpoint saved at epoch 506
Epoch [506/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 507
Epoch [507/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 508
Epoch [508/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 509
Epoch [509/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 510
Epoch [510/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.17%
Checkpoint saved at epoch 511
Epoch [511/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.17%
Checkpoint saved at epoch 512
Epoch [512/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 513
Epoch [513/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0976, Accuracy: 99.11%
Checkpoint saved at epoch 514
Epoch [514/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.17%
Checkpoint saved at epoch 515
Epoch [515/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.11%
Checkpoint saved at epoch 516
Epoch [516/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0974, Accuracy: 99.17%
Checkpoint saved at epoch 517
Epoch [517/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 518
Epoch [518/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.11%

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Checkpoint saved at epoch 519
Epoch [519/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 520
Epoch [520/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 521
Epoch [521/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 522
Epoch [522/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.11%
Checkpoint saved at epoch 523
Epoch [523/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.17%
Checkpoint saved at epoch 524
Epoch [524/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.17%
Checkpoint saved at epoch 525
Epoch [525/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 526
Epoch [526/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 527
Epoch [527/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 528
Epoch [528/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 529
Epoch [529/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 530
Epoch [530/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0965, Accuracy: 99.11%
Checkpoint saved at epoch 531
Epoch [531/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.17%
Checkpoint saved at epoch 532
Epoch [532/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 533
Epoch [533/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.11%
Checkpoint saved at epoch 534
Epoch [534/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 535
Epoch [535/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 536
Epoch [536/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 537
Epoch [537/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 538
Epoch [538/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 539
Epoch [539/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 540
Epoch [540/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 541
Epoch [541/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 542
Epoch [542/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 543
Epoch [543/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 544
Epoch [544/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 545
Epoch [545/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 546
Epoch [546/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.11%
Checkpoint saved at epoch 547
Epoch [547/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.17%
Checkpoint saved at epoch 548

Epoch [548/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 549
Epoch [549/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0977, Accuracy: 99.11%
Checkpoint saved at epoch 550
Epoch [550/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 551
Epoch [551/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.11%
Checkpoint saved at epoch 552
Epoch [552/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 553
Epoch [553/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0965, Accuracy: 99.17%
Checkpoint saved at epoch 554
Epoch [554/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.11%
Checkpoint saved at epoch 555
Epoch [555/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 556
Epoch [556/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0931, Accuracy: 99.11%
Checkpoint saved at epoch 557
Epoch [557/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 558
Epoch [558/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.17%
Checkpoint saved at epoch 559
Epoch [559/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 560
Epoch [560/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 561
Epoch [561/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 562
Epoch [562/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.22%
Checkpoint saved at epoch 563
Epoch [563/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0979, Accuracy: 99.11%
Checkpoint saved at epoch 564
Epoch [564/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 565
Epoch [565/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0987, Accuracy: 99.17%
Checkpoint saved at epoch 566
Epoch [566/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 567
Epoch [567/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 568
Epoch [568/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.11%
Checkpoint saved at epoch 569
Epoch [569/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 570
Epoch [570/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 571
Epoch [571/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.17%
Checkpoint saved at epoch 572
Epoch [572/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 573
Epoch [573/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 574
Epoch [574/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 575
Epoch [575/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 576
Epoch [576/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 577
Epoch [577/1100] - Loss: 0.0000, Accuracy: 100.00%

Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 578
Epoch [578/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 579
Epoch [579/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 580
Epoch [580/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0919, Accuracy: 99.11%
Checkpoint saved at epoch 581
Epoch [581/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.17%
Checkpoint saved at epoch 582
Epoch [582/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.11%
Checkpoint saved at epoch 583
Epoch [583/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 584
Epoch [584/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 585
Epoch [585/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0931, Accuracy: 99.11%
Checkpoint saved at epoch 586
Epoch [586/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.17%
Checkpoint saved at epoch 587
Epoch [587/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 588
Epoch [588/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 589
Epoch [589/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 590
Epoch [590/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 591
Epoch [591/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 592
Epoch [592/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 593
Epoch [593/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 594
Epoch [594/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 595
Epoch [595/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.17%
Checkpoint saved at epoch 596
Epoch [596/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.06%
Checkpoint saved at epoch 597
Epoch [597/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 598
Epoch [598/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 599
Epoch [599/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.11%
Checkpoint saved at epoch 600
Epoch [600/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 601
Epoch [601/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 602
Epoch [602/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.11%
Checkpoint saved at epoch 603
Epoch [603/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.17%
Checkpoint saved at epoch 604
Epoch [604/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 605
Epoch [605/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0915, Accuracy: 99.11%
Checkpoint saved at epoch 606
Epoch [606/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%

Checkpoint saved at epoch 607
Epoch [607/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 608
Epoch [608/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.17%
Checkpoint saved at epoch 609
Epoch [609/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 610
Epoch [610/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 611
Epoch [611/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 612
Epoch [612/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0929, Accuracy: 99.11%
Checkpoint saved at epoch 613
Epoch [613/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 614
Epoch [614/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 615
Epoch [615/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.11%
Checkpoint saved at epoch 616
Epoch [616/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 617
Epoch [617/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.17%
Checkpoint saved at epoch 618
Epoch [618/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 619
Epoch [619/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.11%
Checkpoint saved at epoch 620
Epoch [620/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 621
Epoch [621/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.17%
Checkpoint saved at epoch 622
Epoch [622/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.11%
Checkpoint saved at epoch 623
Epoch [623/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0925, Accuracy: 99.11%
Checkpoint saved at epoch 624
Epoch [624/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 625
Epoch [625/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 626
Epoch [626/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.17%
Checkpoint saved at epoch 627
Epoch [627/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 628
Epoch [628/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 629
Epoch [629/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.06%
Checkpoint saved at epoch 630
Epoch [630/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 631
Epoch [631/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 632
Epoch [632/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 633
Epoch [633/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 634
Epoch [634/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 635
Epoch [635/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0973, Accuracy: 99.17%
Checkpoint saved at epoch 636

Epoch [636/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.17%
Checkpoint saved at epoch 637
Epoch [637/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 638
Epoch [638/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 639
Epoch [639/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.17%
Checkpoint saved at epoch 640
Epoch [640/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 641
Epoch [641/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.17%
Checkpoint saved at epoch 642
Epoch [642/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 643
Epoch [643/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.17%
Checkpoint saved at epoch 644
Epoch [644/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 645
Epoch [645/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.17%
Checkpoint saved at epoch 646
Epoch [646/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.17%
Checkpoint saved at epoch 647
Epoch [647/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.17%
Checkpoint saved at epoch 648
Epoch [648/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.11%
Checkpoint saved at epoch 649
Epoch [649/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 650
Epoch [650/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.11%
Checkpoint saved at epoch 651
Epoch [651/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0972, Accuracy: 99.06%
Checkpoint saved at epoch 652
Epoch [652/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 653
Epoch [653/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 654
Epoch [654/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.11%
Checkpoint saved at epoch 655
Epoch [655/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0982, Accuracy: 99.17%
Checkpoint saved at epoch 656
Epoch [656/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.17%
Checkpoint saved at epoch 657
Epoch [657/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.17%
Checkpoint saved at epoch 658
Epoch [658/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 659
Epoch [659/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 660
Epoch [660/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.17%
Checkpoint saved at epoch 661
Epoch [661/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 662
Epoch [662/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 663
Epoch [663/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 664
Epoch [664/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0965, Accuracy: 99.17%
Checkpoint saved at epoch 665
Epoch [665/1100] - Loss: 0.0000, Accuracy: 100.00%

Validation - Loss: 0.0970, Accuracy: 99.17%
Checkpoint saved at epoch 666
Epoch [666/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 667
Epoch [667/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.17%
Checkpoint saved at epoch 668
Epoch [668/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.06%
Checkpoint saved at epoch 669
Epoch [669/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.17%
Checkpoint saved at epoch 670
Epoch [670/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.17%
Checkpoint saved at epoch 671
Epoch [671/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 672
Epoch [672/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0920, Accuracy: 99.11%
Checkpoint saved at epoch 673
Epoch [673/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0987, Accuracy: 99.17%
Checkpoint saved at epoch 674
Epoch [674/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 675
Epoch [675/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.11%
Checkpoint saved at epoch 676
Epoch [676/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 677
Epoch [677/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.11%
Checkpoint saved at epoch 678
Epoch [678/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 679
Epoch [679/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 680
Epoch [680/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 681
Epoch [681/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 682
Epoch [682/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 683
Epoch [683/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.11%
Checkpoint saved at epoch 684
Epoch [684/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.11%
Checkpoint saved at epoch 685
Epoch [685/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.17%
Checkpoint saved at epoch 686
Epoch [686/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 687
Epoch [687/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 688
Epoch [688/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 689
Epoch [689/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.06%
Checkpoint saved at epoch 690
Epoch [690/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0978, Accuracy: 99.17%
Checkpoint saved at epoch 691
Epoch [691/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 692
Epoch [692/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 693
Epoch [693/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 694
Epoch [694/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%

Checkpoint saved at epoch 695
Epoch [695/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 696
Epoch [696/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 697
Epoch [697/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0984, Accuracy: 99.11%
Checkpoint saved at epoch 698
Epoch [698/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.17%
Checkpoint saved at epoch 699
Epoch [699/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 700
Epoch [700/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0900, Accuracy: 99.11%
Checkpoint saved at epoch 701
Epoch [701/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.17%
Checkpoint saved at epoch 702
Epoch [702/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 703
Epoch [703/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 704
Epoch [704/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 705
Epoch [705/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 706
Epoch [706/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 707
Epoch [707/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 708
Epoch [708/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 709
Epoch [709/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 710
Epoch [710/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.17%
Checkpoint saved at epoch 711
Epoch [711/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.17%
Checkpoint saved at epoch 712
Epoch [712/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0974, Accuracy: 99.17%
Checkpoint saved at epoch 713
Epoch [713/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.11%
Checkpoint saved at epoch 714
Epoch [714/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.17%
Checkpoint saved at epoch 715
Epoch [715/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 716
Epoch [716/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 717
Epoch [717/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 718
Epoch [718/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0965, Accuracy: 99.17%
Checkpoint saved at epoch 719
Epoch [719/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0925, Accuracy: 99.11%
Checkpoint saved at epoch 720
Epoch [720/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.17%
Checkpoint saved at epoch 721
Epoch [721/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 722
Epoch [722/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.17%
Checkpoint saved at epoch 723
Epoch [723/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 724

Epoch [724/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.11%
Checkpoint saved at epoch 725
Epoch [725/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 726
Epoch [726/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 727
Epoch [727/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.17%
Checkpoint saved at epoch 728
Epoch [728/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0929, Accuracy: 99.11%
Checkpoint saved at epoch 729
Epoch [729/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 730
Epoch [730/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 731
Epoch [731/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 732
Epoch [732/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 733
Epoch [733/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0978, Accuracy: 99.11%
Checkpoint saved at epoch 734
Epoch [734/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.17%
Checkpoint saved at epoch 735
Epoch [735/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 736
Epoch [736/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0921, Accuracy: 99.11%
Checkpoint saved at epoch 737
Epoch [737/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.11%
Checkpoint saved at epoch 738
Epoch [738/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0974, Accuracy: 99.11%
Checkpoint saved at epoch 739
Epoch [739/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 740
Epoch [740/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0923, Accuracy: 99.17%
Checkpoint saved at epoch 741
Epoch [741/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0923, Accuracy: 99.11%
Checkpoint saved at epoch 742
Epoch [742/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.17%
Checkpoint saved at epoch 743
Epoch [743/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0922, Accuracy: 99.11%
Checkpoint saved at epoch 744
Epoch [744/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.17%
Checkpoint saved at epoch 745
Epoch [745/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 746
Epoch [746/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 747
Epoch [747/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 748
Epoch [748/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 749
Epoch [749/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0976, Accuracy: 99.17%
Checkpoint saved at epoch 750
Epoch [750/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 751
Epoch [751/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.17%
Checkpoint saved at epoch 752
Epoch [752/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0973, Accuracy: 99.11%
Checkpoint saved at epoch 753
Epoch [753/1100] - Loss: 0.0000, Accuracy: 100.00%

Validation - Loss: 0.0913, Accuracy: 99.11%
Checkpoint saved at epoch 754
Epoch [754/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 755
Epoch [755/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 756
Epoch [756/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0985, Accuracy: 99.17%
Checkpoint saved at epoch 757
Epoch [757/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 758
Epoch [758/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 759
Epoch [759/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 760
Epoch [760/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0978, Accuracy: 99.17%
Checkpoint saved at epoch 761
Epoch [761/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.17%
Checkpoint saved at epoch 762
Epoch [762/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.11%
Checkpoint saved at epoch 763
Epoch [763/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 764
Epoch [764/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 765
Epoch [765/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 766
Epoch [766/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 767
Epoch [767/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0977, Accuracy: 99.11%
Checkpoint saved at epoch 768
Epoch [768/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0912, Accuracy: 99.11%
Checkpoint saved at epoch 769
Epoch [769/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 770
Epoch [770/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 771
Epoch [771/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 772
Epoch [772/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 773
Epoch [773/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 774
Epoch [774/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 775
Epoch [775/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0920, Accuracy: 99.11%
Checkpoint saved at epoch 776
Epoch [776/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 777
Epoch [777/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 778
Epoch [778/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 779
Epoch [779/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0924, Accuracy: 99.17%
Checkpoint saved at epoch 780
Epoch [780/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 781
Epoch [781/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 782
Epoch [782/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%

Checkpoint saved at epoch 783
Epoch [783/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.17%
Checkpoint saved at epoch 784
Epoch [784/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 785
Epoch [785/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 786
Epoch [786/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 787
Epoch [787/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 788
Epoch [788/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0919, Accuracy: 99.11%
Checkpoint saved at epoch 789
Epoch [789/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0925, Accuracy: 99.11%
Checkpoint saved at epoch 790
Epoch [790/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.17%
Checkpoint saved at epoch 791
Epoch [791/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 792
Epoch [792/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.11%
Checkpoint saved at epoch 793
Epoch [793/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.17%
Checkpoint saved at epoch 794
Epoch [794/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 795
Epoch [795/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 796
Epoch [796/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 797
Epoch [797/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0910, Accuracy: 99.11%
Checkpoint saved at epoch 798
Epoch [798/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.17%
Checkpoint saved at epoch 799
Epoch [799/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 800
Epoch [800/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 801
Epoch [801/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.11%
Checkpoint saved at epoch 802
Epoch [802/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 803
Epoch [803/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 804
Epoch [804/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 805
Epoch [805/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 806
Epoch [806/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.11%
Checkpoint saved at epoch 807
Epoch [807/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 808
Epoch [808/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.11%
Checkpoint saved at epoch 809
Epoch [809/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 810
Epoch [810/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 811
Epoch [811/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 812

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Epoch [812/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 813
Epoch [813/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.11%
Checkpoint saved at epoch 814
Epoch [814/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 815
Epoch [815/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 816
Epoch [816/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 817
Epoch [817/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 818
Epoch [818/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.06%
Checkpoint saved at epoch 819
Epoch [819/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 820
Epoch [820/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.17%
Checkpoint saved at epoch 821
Epoch [821/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0972, Accuracy: 99.11%
Checkpoint saved at epoch 822
Epoch [822/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 823
Epoch [823/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 824
Epoch [824/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.17%
Checkpoint saved at epoch 825
Epoch [825/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 826
Epoch [826/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.11%
Checkpoint saved at epoch 827
Epoch [827/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 828
Epoch [828/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 829
Epoch [829/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0922, Accuracy: 99.11%
Checkpoint saved at epoch 830
Epoch [830/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0910, Accuracy: 99.11%
Checkpoint saved at epoch 831
Epoch [831/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 832
Epoch [832/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 833
Epoch [833/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0942, Accuracy: 99.11%
Checkpoint saved at epoch 834
Epoch [834/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 835
Epoch [835/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 836
Epoch [836/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 837
Epoch [837/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 838
Epoch [838/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 839
Epoch [839/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 840
Epoch [840/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.17%
Checkpoint saved at epoch 841
Epoch [841/1100] - Loss: 0.0000, Accuracy: 100.00%
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Epoch [842/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0955, Accuracy: 99.11%  
Checkpoint saved at epoch 842  
Epoch [842/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0954, Accuracy: 99.17%  
Checkpoint saved at epoch 843  
Epoch [843/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0934, Accuracy: 99.17%  
Checkpoint saved at epoch 844  
Epoch [844/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0943, Accuracy: 99.11%  
Checkpoint saved at epoch 845  
Epoch [845/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0950, Accuracy: 99.17%  
Checkpoint saved at epoch 846  
Epoch [846/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0957, Accuracy: 99.17%  
Checkpoint saved at epoch 847  
Epoch [847/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0961, Accuracy: 99.11%  
Checkpoint saved at epoch 848  
Epoch [848/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0969, Accuracy: 99.17%  
Checkpoint saved at epoch 849  
Epoch [849/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0953, Accuracy: 99.11%  
Checkpoint saved at epoch 850  
Epoch [850/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0942, Accuracy: 99.11%  
Checkpoint saved at epoch 851  
Epoch [851/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0934, Accuracy: 99.11%  
Checkpoint saved at epoch 852  
Epoch [852/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0940, Accuracy: 99.11%  
Checkpoint saved at epoch 853  
Epoch [853/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0934, Accuracy: 99.11%  
Checkpoint saved at epoch 854  
Epoch [854/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0984, Accuracy: 99.17%  
Checkpoint saved at epoch 855  
Epoch [855/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0939, Accuracy: 99.11%  
Checkpoint saved at epoch 856  
Epoch [856/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0939, Accuracy: 99.11%  
Checkpoint saved at epoch 857  
Epoch [857/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0920, Accuracy: 99.11%  
Checkpoint saved at epoch 858  
Epoch [858/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0959, Accuracy: 99.11%  
Checkpoint saved at epoch 859  
Epoch [859/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0951, Accuracy: 99.11%  
Checkpoint saved at epoch 860  
Epoch [860/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0964, Accuracy: 99.17%  
Checkpoint saved at epoch 861  
Epoch [861/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0973, Accuracy: 99.17%  
Checkpoint saved at epoch 862  
Epoch [862/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0972, Accuracy: 99.17%  
Checkpoint saved at epoch 863  
Epoch [863/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0952, Accuracy: 99.11%  
Checkpoint saved at epoch 864  
Epoch [864/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0961, Accuracy: 99.11%  
Checkpoint saved at epoch 865  
Epoch [865/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0962, Accuracy: 99.17%  
Checkpoint saved at epoch 866  
Epoch [866/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0963, Accuracy: 99.11%  
Checkpoint saved at epoch 867  
Epoch [867/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0982, Accuracy: 99.17%  
Checkpoint saved at epoch 868  
Epoch [868/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0959, Accuracy: 99.17%  
Checkpoint saved at epoch 869  
Epoch [869/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0945, Accuracy: 99.11%  
Checkpoint saved at epoch 870  
Epoch [870/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0959, Accuracy: 99.17%
```


Validation - Loss: 0.0928, Accuracy: 99.17%
Checkpoint saved at epoch 871
Epoch [871/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.17%
Checkpoint saved at epoch 872
Epoch [872/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.11%
Checkpoint saved at epoch 873
Epoch [873/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 874
Epoch [874/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0981, Accuracy: 99.11%
Checkpoint saved at epoch 875
Epoch [875/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 876
Epoch [876/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.17%
Checkpoint saved at epoch 877
Epoch [877/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 878
Epoch [878/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 879
Epoch [879/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.17%
Checkpoint saved at epoch 880
Epoch [880/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 881
Epoch [881/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0931, Accuracy: 99.17%
Checkpoint saved at epoch 882
Epoch [882/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.17%
Checkpoint saved at epoch 883
Epoch [883/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 884
Epoch [884/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.11%
Checkpoint saved at epoch 885
Epoch [885/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 886
Epoch [886/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 887
Epoch [887/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0923, Accuracy: 99.11%
Checkpoint saved at epoch 888
Epoch [888/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.11%
Checkpoint saved at epoch 889
Epoch [889/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 890
Epoch [890/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.17%
Checkpoint saved at epoch 891
Epoch [891/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.11%
Checkpoint saved at epoch 892
Epoch [892/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0971, Accuracy: 99.17%
Checkpoint saved at epoch 893
Epoch [893/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.17%
Checkpoint saved at epoch 894
Epoch [894/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.11%
Checkpoint saved at epoch 895
Epoch [895/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 896
Epoch [896/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 897
Epoch [897/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.17%
Checkpoint saved at epoch 898
Epoch [898/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.11%
Checkpoint saved at epoch 899
Epoch [899/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.17%
Checkpoint saved at epoch 900

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Checkpoint saved at epoch 900
Epoch [900/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0963, Accuracy: 99.17%
Checkpoint saved at epoch 901
Epoch [901/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.17%
Checkpoint saved at epoch 902
Epoch [902/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.11%
Checkpoint saved at epoch 903
Epoch [903/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0928, Accuracy: 99.17%
Checkpoint saved at epoch 904
Epoch [904/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0922, Accuracy: 99.11%
Checkpoint saved at epoch 905
Epoch [905/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 906
Epoch [906/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0978, Accuracy: 99.17%
Checkpoint saved at epoch 907
Epoch [907/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.11%
Checkpoint saved at epoch 908
Epoch [908/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.11%
Checkpoint saved at epoch 909
Epoch [909/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.17%
Checkpoint saved at epoch 910
Epoch [910/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0905, Accuracy: 99.17%
Checkpoint saved at epoch 911
Epoch [911/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0917, Accuracy: 99.17%
Checkpoint saved at epoch 912
Epoch [912/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0965, Accuracy: 99.17%
Checkpoint saved at epoch 913
Epoch [913/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.17%
Checkpoint saved at epoch 914
Epoch [914/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 915
Epoch [915/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0924, Accuracy: 99.17%
Checkpoint saved at epoch 916
Epoch [916/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 917
Epoch [917/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 918
Epoch [918/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.11%
Checkpoint saved at epoch 919
Epoch [919/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0975, Accuracy: 99.11%
Checkpoint saved at epoch 920
Epoch [920/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 921
Epoch [921/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.17%
Checkpoint saved at epoch 922
Epoch [922/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 923
Epoch [923/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 924
Epoch [924/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 925
Epoch [925/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0979, Accuracy: 99.17%
Checkpoint saved at epoch 926
Epoch [926/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0980, Accuracy: 99.17%
Checkpoint saved at epoch 927
Epoch [927/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 928
Epoch [928/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0922, Accuracy: 99.11%
Checkpoint saved at epoch 929
Epoch [929/1100] - Loss: 0.0000, Accuracy: 100.00%
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Epoch [929/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0950, Accuracy: 99.17%  
Checkpoint saved at epoch 930  
Epoch [930/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0928, Accuracy: 99.11%  
Checkpoint saved at epoch 931  
Epoch [931/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0923, Accuracy: 99.11%  
Checkpoint saved at epoch 932  
Epoch [932/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0952, Accuracy: 99.17%  
Checkpoint saved at epoch 933  
Epoch [933/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0941, Accuracy: 99.11%  
Checkpoint saved at epoch 934  
Epoch [934/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0951, Accuracy: 99.17%  
Checkpoint saved at epoch 935  
Epoch [935/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0993, Accuracy: 99.17%  
Checkpoint saved at epoch 936  
Epoch [936/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0953, Accuracy: 99.17%  
Checkpoint saved at epoch 937  
Epoch [937/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0957, Accuracy: 99.11%  
Checkpoint saved at epoch 938  
Epoch [938/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0941, Accuracy: 99.17%  
Checkpoint saved at epoch 939  
Epoch [939/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0933, Accuracy: 99.11%  
Checkpoint saved at epoch 940  
Epoch [940/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0938, Accuracy: 99.17%  
Checkpoint saved at epoch 941  
Epoch [941/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0940, Accuracy: 99.17%  
Checkpoint saved at epoch 942  
Epoch [942/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0957, Accuracy: 99.11%  
Checkpoint saved at epoch 943  
Epoch [943/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0958, Accuracy: 99.11%  
Checkpoint saved at epoch 944  
Epoch [944/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0976, Accuracy: 99.17%  
Checkpoint saved at epoch 945  
Epoch [945/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0978, Accuracy: 99.17%  
Checkpoint saved at epoch 946  
Epoch [946/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0952, Accuracy: 99.11%  
Checkpoint saved at epoch 947  
Epoch [947/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0953, Accuracy: 99.17%  
Checkpoint saved at epoch 948  
Epoch [948/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0951, Accuracy: 99.11%  
Checkpoint saved at epoch 949  
Epoch [949/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0959, Accuracy: 99.11%  
Checkpoint saved at epoch 950  
Epoch [950/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0915, Accuracy: 99.11%  
Checkpoint saved at epoch 951  
Epoch [951/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0938, Accuracy: 99.17%  
Checkpoint saved at epoch 952  
Epoch [952/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0962, Accuracy: 99.11%  
Checkpoint saved at epoch 953  
Epoch [953/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0940, Accuracy: 99.11%  
Checkpoint saved at epoch 954  
Epoch [954/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0953, Accuracy: 99.11%  
Checkpoint saved at epoch 955  
Epoch [955/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0955, Accuracy: 99.11%  
Checkpoint saved at epoch 956  
Epoch [956/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0949, Accuracy: 99.17%  
Checkpoint saved at epoch 957  
Epoch [957/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0961, Accuracy: 99.17%  
Checkpoint saved at epoch 958  
Epoch [958/1100] - Loss: 0.0000, Accuracy: 100.00%  
Validation - Loss: 0.0948, Accuracy: 99.11%
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validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 959
Epoch [959/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 960
Epoch [960/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 961
Epoch [961/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0924, Accuracy: 99.11%
Checkpoint saved at epoch 962
Epoch [962/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.17%
Checkpoint saved at epoch 963
Epoch [963/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0933, Accuracy: 99.11%
Checkpoint saved at epoch 964
Epoch [964/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 965
Epoch [965/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.11%
Checkpoint saved at epoch 966
Epoch [966/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 967
Epoch [967/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.17%
Checkpoint saved at epoch 968
Epoch [968/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 969
Epoch [969/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 970
Epoch [970/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.11%
Checkpoint saved at epoch 971
Epoch [971/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0931, Accuracy: 99.11%
Checkpoint saved at epoch 972
Epoch [972/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 973
Epoch [973/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.17%
Checkpoint saved at epoch 974
Epoch [974/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 975
Epoch [975/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 976
Epoch [976/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0923, Accuracy: 99.11%
Checkpoint saved at epoch 977
Epoch [977/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.17%
Checkpoint saved at epoch 978
Epoch [978/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 979
Epoch [979/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0974, Accuracy: 99.17%
Checkpoint saved at epoch 980
Epoch [980/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 981
Epoch [981/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 982
Epoch [982/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 983
Epoch [983/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 984
Epoch [984/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 985
Epoch [985/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.11%
Checkpoint saved at epoch 986
Epoch [986/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.11%
Checkpoint saved at epoch 987
Epoch [987/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0975, Accuracy: 99.17%
Checkpoint saved at epoch 988
```

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Checkpoint saved at epoch 988
Epoch [988/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 989
Epoch [989/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0969, Accuracy: 99.17%
Checkpoint saved at epoch 990
Epoch [990/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 991
Epoch [991/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0971, Accuracy: 99.11%
Checkpoint saved at epoch 992
Epoch [992/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0930, Accuracy: 99.17%
Checkpoint saved at epoch 993
Epoch [993/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0916, Accuracy: 99.11%
Checkpoint saved at epoch 994
Epoch [994/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0954, Accuracy: 99.17%
Checkpoint saved at epoch 995
Epoch [995/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 996
Epoch [996/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 997
Epoch [997/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.11%
Checkpoint saved at epoch 998
Epoch [998/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.17%
Checkpoint saved at epoch 999
Epoch [999/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.11%
Checkpoint saved at epoch 1000
Epoch [1000/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 1001
Epoch [1001/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0938, Accuracy: 99.11%
Checkpoint saved at epoch 1002
Epoch [1002/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0962, Accuracy: 99.17%
Checkpoint saved at epoch 1003
Epoch [1003/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0970, Accuracy: 99.11%
Checkpoint saved at epoch 1004
Epoch [1004/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0975, Accuracy: 99.11%
Checkpoint saved at epoch 1005
Epoch [1005/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0924, Accuracy: 99.11%
Checkpoint saved at epoch 1006
Epoch [1006/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0971, Accuracy: 99.17%
Checkpoint saved at epoch 1007
Epoch [1007/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.17%
Checkpoint saved at epoch 1008
Epoch [1008/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.17%
Checkpoint saved at epoch 1009
Epoch [1009/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.17%
Checkpoint saved at epoch 1010
Epoch [1010/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 1011
Epoch [1011/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0974, Accuracy: 99.11%
Checkpoint saved at epoch 1012
Epoch [1012/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.11%
Checkpoint saved at epoch 1013
Epoch [1013/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.11%
Checkpoint saved at epoch 1014
Epoch [1014/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0951, Accuracy: 99.11%
Checkpoint saved at epoch 1015
Epoch [1015/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 1016
Epoch [1016/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 1017
Epoch [1017/1100] - Loss: 0.0000, Accuracy: 100.00%
```

```
Epoch [1017/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.11%
Checkpoint saved at epoch 1018
Epoch [1018/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.17%
Checkpoint saved at epoch 1019
Epoch [1019/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 1020
Epoch [1020/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 1021
Epoch [1021/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 1022
Epoch [1022/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 1023
Epoch [1023/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1024
Epoch [1024/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1025
Epoch [1025/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.17%
Checkpoint saved at epoch 1026
Epoch [1026/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0983, Accuracy: 99.17%
Checkpoint saved at epoch 1027
Epoch [1027/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.17%
Checkpoint saved at epoch 1028
Epoch [1028/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 1029
Epoch [1029/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0957, Accuracy: 99.17%
Checkpoint saved at epoch 1030
Epoch [1030/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0939, Accuracy: 99.11%
Checkpoint saved at epoch 1031
Epoch [1031/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1032
Epoch [1032/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0934, Accuracy: 99.11%
Checkpoint saved at epoch 1033
Epoch [1033/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.11%
Checkpoint saved at epoch 1034
Epoch [1034/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 1035
Epoch [1035/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0904, Accuracy: 99.11%
Checkpoint saved at epoch 1036
Epoch [1036/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.06%
Checkpoint saved at epoch 1037
Epoch [1037/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.17%
Checkpoint saved at epoch 1038
Epoch [1038/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0925, Accuracy: 99.11%
Checkpoint saved at epoch 1039
Epoch [1039/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.17%
Checkpoint saved at epoch 1040
Epoch [1040/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 1041
Epoch [1041/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.11%
Checkpoint saved at epoch 1042
Epoch [1042/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 1043
Epoch [1043/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 1044
Epoch [1044/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 1045
Epoch [1045/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 1046
Epoch [1046/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
```

```
validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 1047
Epoch [1047/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 1048
Epoch [1048/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1049
Epoch [1049/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 1050
Epoch [1050/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1051
Epoch [1051/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 1052
Epoch [1052/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0918, Accuracy: 99.11%
Checkpoint saved at epoch 1053
Epoch [1053/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0968, Accuracy: 99.17%
Checkpoint saved at epoch 1054
Epoch [1054/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 1055
Epoch [1055/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0927, Accuracy: 99.17%
Checkpoint saved at epoch 1056
Epoch [1056/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.11%
Checkpoint saved at epoch 1057
Epoch [1057/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 1058
Epoch [1058/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 1059
Epoch [1059/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0956, Accuracy: 99.17%
Checkpoint saved at epoch 1060
Epoch [1060/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0936, Accuracy: 99.11%
Checkpoint saved at epoch 1061
Epoch [1061/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.17%
Checkpoint saved at epoch 1062
Epoch [1062/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.17%
Checkpoint saved at epoch 1063
Epoch [1063/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0959, Accuracy: 99.17%
Checkpoint saved at epoch 1064
Epoch [1064/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 1065
Epoch [1065/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0966, Accuracy: 99.11%
Checkpoint saved at epoch 1066
Epoch [1066/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.11%
Checkpoint saved at epoch 1067
Epoch [1067/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0923, Accuracy: 99.11%
Checkpoint saved at epoch 1068
Epoch [1068/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.11%
Checkpoint saved at epoch 1069
Epoch [1069/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.17%
Checkpoint saved at epoch 1070
Epoch [1070/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0955, Accuracy: 99.11%
Checkpoint saved at epoch 1071
Epoch [1071/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
Checkpoint saved at epoch 1072
Epoch [1072/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.17%
Checkpoint saved at epoch 1073
Epoch [1073/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0983, Accuracy: 99.17%
Checkpoint saved at epoch 1074
Epoch [1074/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0946, Accuracy: 99.11%
Checkpoint saved at epoch 1075
Epoch [1075/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0949, Accuracy: 99.17%
```

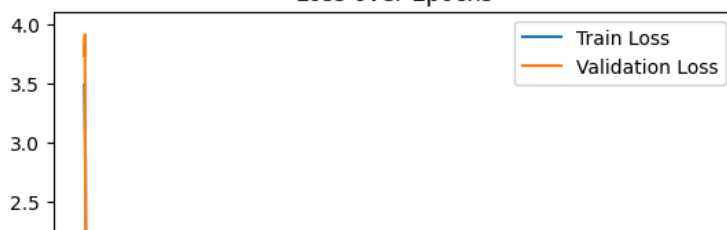
```

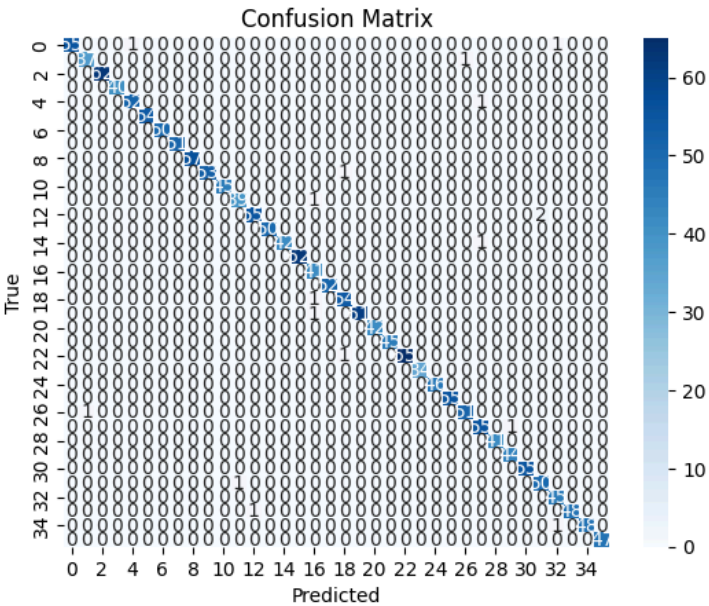
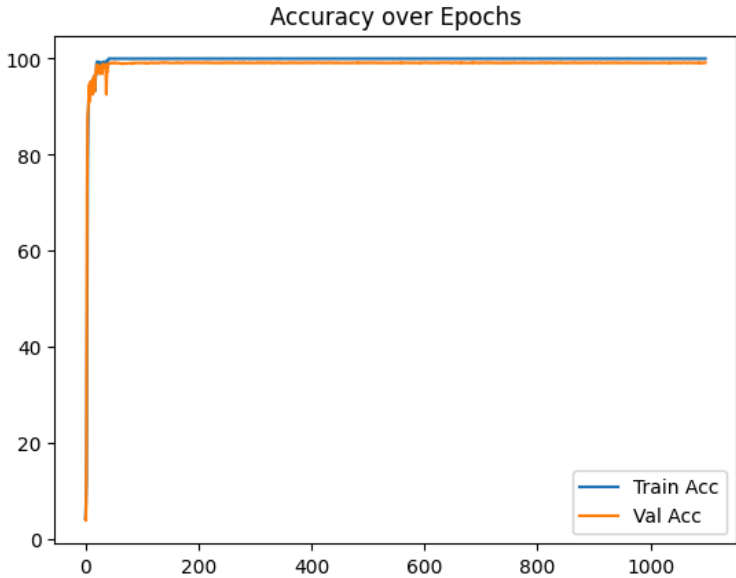
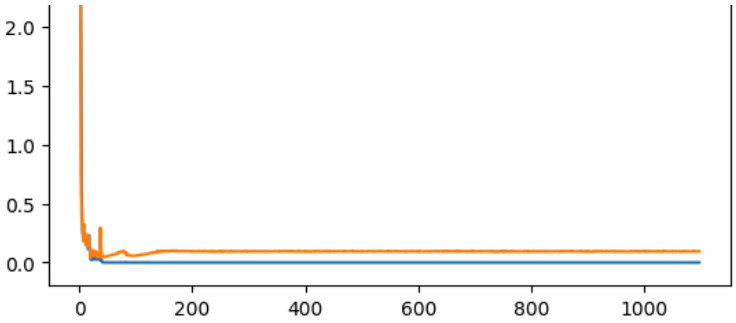
Checkpoint saved at epoch 1076
Epoch [1076/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0926, Accuracy: 99.11%
Checkpoint saved at epoch 1077
Epoch [1077/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0947, Accuracy: 99.11%
Checkpoint saved at epoch 1078
Epoch [1078/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0961, Accuracy: 99.11%
Checkpoint saved at epoch 1079
Epoch [1079/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0953, Accuracy: 99.11%
Checkpoint saved at epoch 1080
Epoch [1080/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 1081
Epoch [1081/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0967, Accuracy: 99.11%
Checkpoint saved at epoch 1082
Epoch [1082/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0948, Accuracy: 99.17%
Checkpoint saved at epoch 1083
Epoch [1083/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0932, Accuracy: 99.11%
Checkpoint saved at epoch 1084
Epoch [1084/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0935, Accuracy: 99.11%
Checkpoint saved at epoch 1085
Epoch [1085/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 1086
Epoch [1086/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0941, Accuracy: 99.17%
Checkpoint saved at epoch 1087
Epoch [1087/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0943, Accuracy: 99.11%
Checkpoint saved at epoch 1088
Epoch [1088/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0975, Accuracy: 99.17%
Checkpoint saved at epoch 1089
Epoch [1089/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0982, Accuracy: 99.06%
Checkpoint saved at epoch 1090
Epoch [1090/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0944, Accuracy: 99.17%
Checkpoint saved at epoch 1091
Epoch [1091/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0964, Accuracy: 99.11%
Checkpoint saved at epoch 1092
Epoch [1092/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0952, Accuracy: 99.11%
Checkpoint saved at epoch 1093
Epoch [1093/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0937, Accuracy: 99.11%
Checkpoint saved at epoch 1094
Epoch [1094/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0958, Accuracy: 99.11%
Checkpoint saved at epoch 1095
Epoch [1095/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.17%
Checkpoint saved at epoch 1096
Epoch [1096/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0940, Accuracy: 99.11%
Checkpoint saved at epoch 1097
Epoch [1097/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0960, Accuracy: 99.11%
Checkpoint saved at epoch 1098
Epoch [1098/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%
Checkpoint saved at epoch 1099
Epoch [1099/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0950, Accuracy: 99.11%
Checkpoint saved at epoch 1100
Epoch [1100/1100] - Loss: 0.0000, Accuracy: 100.00%
Validation - Loss: 0.0945, Accuracy: 99.17%

```

Peak Validation Accuracy: 99.22%

Loss over Epochs





	precision	recall	f1-score	support
0	1.00	0.96	0.98	57
1	0.97	0.97	0.97	38
2	1.00	1.00	1.00	62
3	1.00	1.00	1.00	40
4	0.98	0.98	0.98	53
5	1.00	1.00	1.00	54
6	1.00	1.00	1.00	50
7	1.00	1.00	1.00	51
8	1.00	1.00	1.00	57
9	1.00	0.98	0.99	54
10	1.00	1.00	1.00	45
11	0.97	0.97	0.97	40
12	0.98	0.96	0.97	57
13	1.00	1.00	1.00	50
14	1.00	0.98	0.99	43
15	1.00	1.00	1.00	62
16	0.93	1.00	0.96	41
17	1.00	1.00	1.00	52
18	0.96	0.98	0.97	55
19	1.00	0.98	0.99	62
20	1.00	1.00	1.00	42