22MIA1049 DA3

April 17, 2025

1 Pneumonia Detection Using Vision Transformer (ViT) Fine-Tuned on Chest X-Ray Images - Digital Assignment 3

Model Used: google/vit-base-patch16-224-in21k

Dataset: Chest X-Ray Images (Normal vs Pneumonia)

[4]: # Setup: Install Kaggle API for direct dataset download

Unzip the dataset and remove the zip file

!kaggle datasets download paultimothymooney/chest-xray-pneumonia

Name: Naveen NReg No: 22MIA1049

1.1 Setting Kaggle Api

Streaming output truncated to the last 5000 lines.

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inflating: chest_xray/train/NORMAL/NORMAL2-IM-0395-0001.jpeg
inflating: chest_xray/train/NORMAL/NORMAL2-IM-0396-0001.jpeg
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inflating: chest_xray/train/NORMAL/NORMAL2-IM-1185-0001.jpeg
inflating: chest_xray/train/NORMAL/NORMAL2-IM-1187-0001.jpeg
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inflating: chest_xray/train/PNEUMONIA/person940_bacteria_2865.jpeg
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inflating: chest_xray/train/PNEUMONIA/person940_virus_1604.jpeg
inflating: chest_xray/train/PNEUMONIA/person940_virus_1605.jpeg
inflating: chest_xray/train/PNEUMONIA/person940_virus_1607.jpeg
inflating: chest_xray/train/PNEUMONIA/person940_virus_1609.jpeg
inflating: chest_xray/train/PNEUMONIA/person941_virus_1610.jpeg
inflating: chest_xray/train/PNEUMONIA/person942_bacteria_2867.jpeg
inflating: chest_xray/train/PNEUMONIA/person942_virus_1611.jpeg
inflating: chest_xray/train/PNEUMONIA/person943_bacteria_2868.jpeg
inflating: chest_xray/train/PNEUMONIA/person944_bacteria 2869.jpeg
inflating: chest_xray/train/PNEUMONIA/person945_bacteria_2870.jpeg
inflating: chest xray/train/PNEUMONIA/person945 virus 1616.jpeg
inflating: chest xray/train/PNEUMONIA/person946 bacteria 2871.jpeg
inflating: chest xray/train/PNEUMONIA/person947 bacteria 2872.jpeg
inflating: chest_xray/train/PNEUMONIA/person947_virus_1618.jpeg
inflating: chest_xray/train/PNEUMONIA/person949_bacteria_2874.jpeg
inflating: chest_xray/train/PNEUMONIA/person949_virus_1620.jpeg
inflating: chest_xray/train/PNEUMONIA/person94_virus_176.jpeg
inflating: chest_xray/train/PNEUMONIA/person950_virus_1621.jpeg
inflating: chest_xray/train/PNEUMONIA/person951_bacteria 2876.jpeg
inflating: chest_xray/train/PNEUMONIA/person951_virus_1622.jpeg
inflating: chest_xray/train/PNEUMONIA/person952_bacteria_2877.jpeg
inflating: chest_xray/train/PNEUMONIA/person952_virus_1623.jpeg
inflating: chest_xray/train/PNEUMONIA/person953_bacteria_2878.jpeg
inflating: chest_xray/train/PNEUMONIA/person954_bacteria 2879.jpeg
```

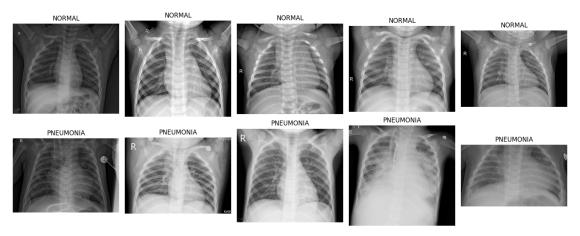
```
inflating: chest_xray/train/PNEUMONIA/person954_virus_1626.jpeg
inflating: chest_xray/train/PNEUMONIA/person955_bacteria_2880.jpeg
inflating: chest_xray/train/PNEUMONIA/person955_virus_1627.jpeg
inflating: chest_xray/train/PNEUMONIA/person956_bacteria_2881.jpeg
inflating: chest xray/train/PNEUMONIA/person956 virus 1628.jpeg
inflating: chest xray/train/PNEUMONIA/person957 bacteria 2882.jpeg
inflating: chest xray/train/PNEUMONIA/person957 virus 1629.jpeg
inflating: chest_xray/train/PNEUMONIA/person958_bacteria_2883.jpeg
inflating: chest xray/train/PNEUMONIA/person958 virus 1630.jpeg
inflating: chest_xray/train/PNEUMONIA/person959_bacteria_2884.jpeg
inflating: chest_xray/train/PNEUMONIA/person95_virus_177.jpeg
inflating: chest_xray/train/PNEUMONIA/person960_bacteria 2885.jpeg
inflating: chest_xray/train/PNEUMONIA/person960_virus_1633.jpeg
inflating: chest_xray/train/PNEUMONIA/person961_bacteria_2886.jpeg
inflating: chest_xray/train/PNEUMONIA/person961_virus_1634.jpeg
inflating: chest_xray/train/PNEUMONIA/person962_bacteria_2887.jpeg
inflating: chest_xray/train/PNEUMONIA/person962_virus_1635.jpeg
inflating: chest_xray/train/PNEUMONIA/person963_bacteria_2888.jpeg
inflating: chest_xray/train/PNEUMONIA/person963_virus_1636.jpeg
inflating: chest xray/train/PNEUMONIA/person964 bacteria 2889.jpeg
inflating: chest_xray/train/PNEUMONIA/person964_virus_1637.jpeg
inflating: chest xray/train/PNEUMONIA/person965 bacteria 2890.jpeg
inflating: chest_xray/train/PNEUMONIA/person965_virus_1638.jpeg
inflating: chest_xray/train/PNEUMONIA/person966_bacteria_2891.jpeg
inflating: chest_xray/train/PNEUMONIA/person966_virus_1639.jpeg
inflating: chest_xray/train/PNEUMONIA/person967_bacteria 2892.jpeg
inflating: chest_xray/train/PNEUMONIA/person967_virus_1640.jpeg
inflating: chest_xray/train/PNEUMONIA/person968_bacteria_2893.jpeg
inflating: chest_xray/train/PNEUMONIA/person968_virus_1642.jpeg
inflating: chest_xray/train/PNEUMONIA/person969_bacteria_2894.jpeg
inflating: chest_xray/train/PNEUMONIA/person969_virus_1643.jpeg
inflating: chest_xray/train/PNEUMONIA/person96_virus_178.jpeg
inflating: chest_xray/train/PNEUMONIA/person96_virus_179.jpeg
inflating: chest_xray/train/PNEUMONIA/person970_bacteria_2895.jpeg
inflating: chest xray/train/PNEUMONIA/person970 virus 1644.jpeg
inflating: chest xray/train/PNEUMONIA/person971 bacteria 2896.jpeg
inflating: chest xray/train/PNEUMONIA/person972 bacteria 2897.jpeg
inflating: chest_xray/train/PNEUMONIA/person972_virus_1646.jpeg
inflating: chest_xray/train/PNEUMONIA/person973_virus_1647.jpeg
inflating: chest_xray/train/PNEUMONIA/person974_bacteria_2899.jpeg
inflating: chest_xray/train/PNEUMONIA/person974_virus_1649.jpeg
inflating: chest_xray/train/PNEUMONIA/person975_virus_1650.jpeg
inflating: chest_xray/train/PNEUMONIA/person976_bacteria 2901.jpeg
inflating: chest_xray/train/PNEUMONIA/person976_virus_1651.jpeg
inflating: chest_xray/train/PNEUMONIA/person977_bacteria 2902.jpeg
inflating: chest_xray/train/PNEUMONIA/person977_virus_1652.jpeg
inflating: chest_xray/train/PNEUMONIA/person978_bacteria_2904.jpeg
inflating: chest_xray/train/PNEUMONIA/person978_virus_1653.jpeg
```

```
inflating: chest_xray/train/PNEUMONIA/person979_bacteria_2905.jpeg
inflating: chest_xray/train/PNEUMONIA/person979_virus_1654.jpeg
inflating: chest_xray/train/PNEUMONIA/person97_virus_180.jpeg
inflating: chest_xray/train/PNEUMONIA/person97_virus_181.jpeg
inflating: chest xray/train/PNEUMONIA/person980 bacteria 2906.jpeg
inflating: chest xray/train/PNEUMONIA/person980 virus 1655.jpeg
inflating: chest xray/train/PNEUMONIA/person981 bacteria 2907.jpeg
inflating: chest_xray/train/PNEUMONIA/person981_bacteria_2908.jpeg
inflating: chest_xray/train/PNEUMONIA/person981_virus_1657.jpeg
inflating: chest_xray/train/PNEUMONIA/person982_bacteria_2909.jpeg
inflating: chest_xray/train/PNEUMONIA/person982_virus_1658.jpeg
inflating: chest_xray/train/PNEUMONIA/person983_bacteria_2910.jpeg
inflating: chest_xray/train/PNEUMONIA/person983_virus_1660.jpeg
inflating: chest_xray/train/PNEUMONIA/person984_bacteria_2911.jpeg
inflating: chest_xray/train/PNEUMONIA/person985_bacteria 2912.jpeg
inflating: chest_xray/train/PNEUMONIA/person986_bacteria_2913.jpeg
inflating: chest_xray/train/PNEUMONIA/person987_bacteria_2914.jpeg
inflating: chest_xray/train/PNEUMONIA/person988_bacteria_2915.jpeg
inflating: chest_xray/train/PNEUMONIA/person988_virus_1666.jpeg
inflating: chest xray/train/PNEUMONIA/person989 virus 1667.jpeg
inflating: chest_xray/train/PNEUMONIA/person98_virus_182.jpeg
inflating: chest xray/train/PNEUMONIA/person990 bacteria 2917.jpeg
inflating: chest_xray/train/PNEUMONIA/person991_bacteria_2918.jpeg
inflating: chest xray/train/PNEUMONIA/person991 virus 1669.jpeg
inflating: chest_xray/train/PNEUMONIA/person992_bacteria_2919.jpeg
inflating: chest_xray/train/PNEUMONIA/person992_bacteria_2920.jpeg
inflating: chest_xray/train/PNEUMONIA/person992_virus_1670.jpeg
inflating: chest_xray/train/PNEUMONIA/person993_bacteria_2921.jpeg
inflating: chest_xray/train/PNEUMONIA/person993_virus_1671.jpeg
inflating: chest_xray/train/PNEUMONIA/person994_bacteria_2922.jpeg
inflating: chest_xray/train/PNEUMONIA/person994_virus_1672.jpeg
inflating: chest_xray/train/PNEUMONIA/person995_bacteria_2923.jpeg
inflating: chest_xray/train/PNEUMONIA/person995_virus_1676.jpeg
inflating: chest_xray/train/PNEUMONIA/person996_bacteria_2924.jpeg
inflating: chest xray/train/PNEUMONIA/person996 virus 1677.jpeg
inflating: chest xray/train/PNEUMONIA/person997 bacteria 2926.jpeg
inflating: chest xray/train/PNEUMONIA/person997 virus 1678.jpeg
inflating: chest_xray/train/PNEUMONIA/person998_bacteria_2927.jpeg
inflating: chest_xray/train/PNEUMONIA/person998_bacteria_2928.jpeg
inflating: chest_xray/train/PNEUMONIA/person99_virus_183.jpeg
inflating: chest_xray/train/PNEUMONIA/person9_bacteria_38.jpeg
inflating: chest_xray/train/PNEUMONIA/person9_bacteria_39.jpeg
inflating: chest_xray/train/PNEUMONIA/person9_bacteria_40.jpeg
inflating: chest_xray/train/PNEUMONIA/person9_bacteria_41.jpeg
inflating: chest_xray/val/NORMAL/NORMAL2-IM-1427-0001.jpeg
inflating: chest_xray/val/NORMAL/NORMAL2-IM-1430-0001.jpeg
inflating: chest_xray/val/NORMAL/NORMAL2-IM-1431-0001.jpeg
inflating: chest_xray/val/NORMAL/NORMAL2-IM-1436-0001.jpeg
```

```
inflating: chest_xray/val/NORMAL/NORMAL2-IM-1437-0001.jpeg
       inflating: chest_xray/val/NORMAL/NORMAL2-IM-1438-0001.jpeg
       inflating: chest_xray/val/NORMAL/NORMAL2-IM-1440-0001.jpeg
       inflating: chest_xray/val/NORMAL/NORMAL2-IM-1442-0001.jpeg
       inflating: chest xray/val/PNEUMONIA/person1946 bacteria 4874.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1946_bacteria_4875.jpeg
       inflating: chest xray/val/PNEUMONIA/person1947 bacteria 4876.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1949_bacteria_4880.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1950_bacteria_4881.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1951_bacteria_4882.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1952_bacteria_4883.jpeg
       inflating: chest_xray/val/PNEUMONIA/person1954_bacteria_4886.jpeg
     ##Import Necessary Libraries
[5]: pip install --upgrade pip
     Requirement already satisfied: pip in /usr/local/lib/python3.11/dist-packages
     (24.1.2)
     Collecting pip
       Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
     Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
                              1.8/1.8 MB
     25.4 MB/s eta 0:00:00
     Installing collected packages: pip
       Attempting uninstall: pip
         Found existing installation: pip 24.1.2
         Uninstalling pip-24.1.2:
           Successfully uninstalled pip-24.1.2
     Successfully installed pip-25.0.1
[6]: !nvcc --version # CUDA version
      !python -c "import torch; print(torch.__version__)" # PyTorch version
     nvcc: NVIDIA (R) Cuda compiler driver
     Copyright (c) 2005-2024 NVIDIA Corporation
     Built on Thu_Jun__6_02:18:23_PDT_2024
     Cuda compilation tools, release 12.5, V12.5.82
     Build cuda_12.5.r12.5/compiler.34385749_0
     2.6.0+cu124
[11]: pip install -q evaluate transformers datasets mlflow
[8]: import os
     import numpy as np
     import matplotlib.pyplot as plt
     from pathlib import Path
     from PIL import Image
```

```
import tensorflow as tf
from transformers import ViTFeatureExtractor, TFAutoModelForImageClassification
from sklearn.model_selection import train_test_split
```

```
[9]: # Directory paths
     train_dir = Path("/kaggle/input/chest-xray-pneumonia/chest_xray/train")
     val_dir = Path("/kaggle/input/chest-xray-pneumonia/chest_xray/val")
     test_dir = Path("/kaggle/input/chest-xray-pneumonia/chest_xray/test")
     # Displaying a few images
     def display_images(folder, num=5):
         pneumonia_imgs = list(folder.glob('PNEUMONIA/*.jpeg'))[:num]
         normal_imgs = list(folder.glob('NORMAL/*.jpeg'))[:num]
         fig, axes = plt.subplots(nrows=2, ncols=num, figsize=(15, 6))
         for i, img_path in enumerate(normal_imgs):
             img = Image.open(img_path)
             axes[0, i].imshow(img, cmap='gray')
             axes[0, i].set_title("NORMAL")
             axes[0, i].axis('off')
         for i, img_path in enumerate(pneumonia_imgs):
             img = Image.open(img_path)
             axes[1, i].imshow(img, cmap='gray')
             axes[1, i].set_title("PNEUMONIA")
             axes[1, i].axis('off')
         plt.tight_layout()
         plt.show()
     display_images(train_dir)
```



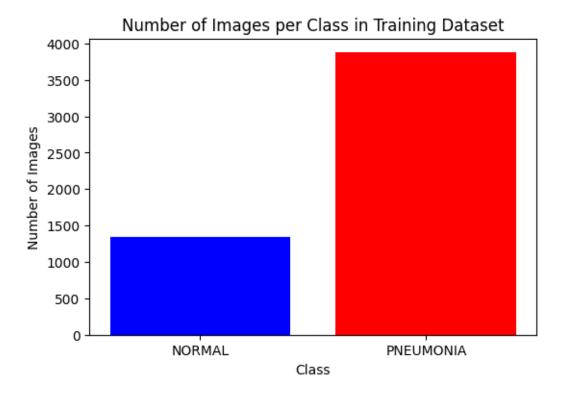
1.2 Data Exploration

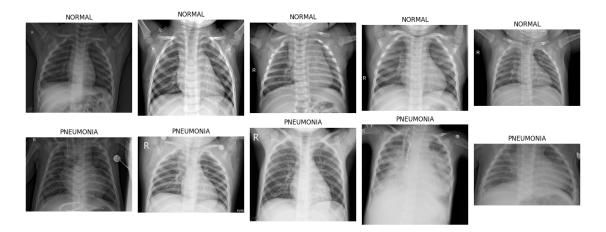
```
[10]: # 1. Dataset Exploration (Count images, plot bar chart, sample images)
    normal_count = len(list(train_dir.glob('NORMAL/*.jpeg')))
    pneumonia_count = len(list(train_dir.glob('PNEUMONIA/*.jpeg')))

# Plotting the bar chart
    classes = ['NORMAL', 'PNEUMONIA']
    counts = [normal_count, pneumonia_count]

plt.figure(figsize=(6, 4))
    plt.bar(classes, counts, color=['blue', 'red'])
    plt.xlabel('Class')
    plt.ylabel('Number of Images')
    plt.title('Number of Images per Class in Training Dataset')
    plt.show()

# Display sample images from the dataset
    display_images(train_dir)
```





1.3 Data Preprocessing

We'll define transformations for the images to make them suitable for input into the ViT model.

```
[13]: label_mapping = {"NORMAL": 0, "PNEUMONIA": 1}
```

1.4 Creating Data Loaders

Data loaders provide an efficient way to iterate through the dataset in batches.

```
[14]: from torchvision.datasets import ImageFolder
from torch.utils.data import DataLoader

# Creating datasets
train_dataset = ImageFolder(train_dir, transform=train_transforms)
val_dataset = ImageFolder(val_dir, transform=val_test_transforms)
test_dataset = ImageFolder(test_dir, transform=val_test_transforms)
```

```
# Creating data loaders
train_loader = DataLoader(train_dataset, batch_size=32, shuffle=True)
val_loader = DataLoader(val_dataset, batch_size=32, shuffle=False)
test_loader = DataLoader(test_dataset, batch_size=32, shuffle=False)
```

1.5 Setting Up the Vision Transformer (ViT) Model

We'll be using the ViT model pre-trained on a large dataset and fine-tuning it on our chest X-ray dataset.

/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:

The secret `HF_TOKEN` does not exist in your Colab secrets.

To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as secret in your Google Colab and restart your session.

You will be able to reuse this secret in all of your notebooks.

Please note that authentication is recommended but still optional to access public models or datasets.

```
warnings.warn(
```

```
config.json: 0%| | 0.00/502 [00:00<?, ?B/s] model.safetensors: 0%| | 0.00/346M [00:00<?, ?B/s]
```

Some weights of ViTForImageClassification were not initialized from the model checkpoint at google/vit-base-patch16-224-in21k and are newly initialized: ['classifier.bias', 'classifier.weight']

You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.

```
preprocessor_config.json: 0%| | 0.00/160 [00:00<?, ?B/s]
```

1.6 Define Loss and Optimizer

We'll use the CrossEntropy loss as it's suitable for binary classification tasks. For optimization, we'll use the Adam optimizer.

```
[16]: import torch.optim as optim
import torch.nn as nn

criterion = nn.CrossEntropyLoss()
optimizer = optim.Adam(model.parameters(), lr=1e-5)
```

1.7 Model Training

Let's train the ViT model on our chest X-ray dataset. We'll also validate the model on the validation set after each epoch.

```
[17]: import torch
      import torch.nn as nn
      from tqdm import tqdm # To show progress bar
      # Check for GPU availability and set the device accordingly
      device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
      # Define the training function
      def train_model(model, criterion, optimizer, train_loader, val_loader, u
       →num_epochs=10):
          # Move model to device (GPU or CPU)
          model.to(device)
          train_losses = [] # List to store training loss for each epoch
          val_accuracies = [] # List to store validation accuracy for each epoch
          for epoch in range(num_epochs):
              model.train()
              running_loss = 0.0
              # Training phase
              for images, labels in tqdm(train_loader, desc=f"Epoch {epoch+1}/

¬{num_epochs} (Training)", leave=False):
                  images, labels = images.to(device), labels.to(device)
                  optimizer.zero_grad()
                  # Forward pass
                  outputs = model(images).logits # Get logits from model outputs
                  loss = criterion(outputs, labels)
                  # Backpropagation
                  loss.backward()
```

```
optimizer.step()
                 running_loss += loss.item() * images.size(0)
             # Validation phase
             model.eval()
             correct = 0
             total = 0
             with torch.no grad():
                 for images, labels in tqdm(val_loader, desc=f"Epoch {epoch+1}/
       images, labels = images.to(device), labels.to(device)
                     outputs = model(images).logits
                     _, predicted = outputs.max(1)
                     total += labels.size(0)
                     correct += (predicted == labels).sum().item()
             # Calculating average loss and accuracy
             avg_train_loss = running_loss / len(train_loader.dataset)
             val_accuracy = 100 * correct / total
             # Append the computed values to their respective lists
             train_losses.append(avg_train_loss)
             val_accuracies.append(val_accuracy)
             # Print training loss and validation accuracy
             print(f"Epoch {epoch+1}/{num_epochs}, Loss: {avg_train_loss:.4f},__
       ⇔Validation Accuracy: {val_accuracy:.2f}%")
         return model, train_losses, val_accuracies
[18]: trained model, train losses, val accuracies = train model(model, criterion,
       →optimizer, train_loader, val_loader, num_epochs=10)
     Epoch 1/10, Loss: 0.2223, Validation Accuracy: 93.75%
     Epoch 2/10, Loss: 0.0794, Validation Accuracy: 93.75%
     Epoch 3/10, Loss: 0.0620, Validation Accuracy: 75.00%
     Epoch 4/10, Loss: 0.0494, Validation Accuracy: 93.75%
```

```
Epoch 5/10, Loss: 0.0408, Validation Accuracy: 93.75%

Epoch 6/10, Loss: 0.0370, Validation Accuracy: 62.50%

Epoch 7/10, Loss: 0.0286, Validation Accuracy: 87.50%

Epoch 8/10, Loss: 0.0311, Validation Accuracy: 93.75%

Epoch 9/10, Loss: 0.0227, Validation Accuracy: 93.75%

Epoch 10/10, Loss: 0.0188, Validation Accuracy: 81.25%
```

1.8 Model Evaluation

Let's evaluate the trained ViT model on the test dataset.

```
[19]: # Evaluation function
def evaluate_model(model, test_loader):
    model.eval()
    correct = 0
    total = 0
    with torch.no_grad():
        for images, labels in test_loader:
            images, labels = images.to(device), labels.to(device)
            outputs = model(images).logits
            _, predicted = outputs.max(1)
            total += labels.size(0)
            correct += (predicted == labels).sum().item()

    test_accuracy = 100 * correct / total
    print(f"Test Accuracy: {test_accuracy:.2f}%")

evaluate_model(trained_model, test_loader)
```

Test Accuracy: 77.72%

1.9 Save the Model

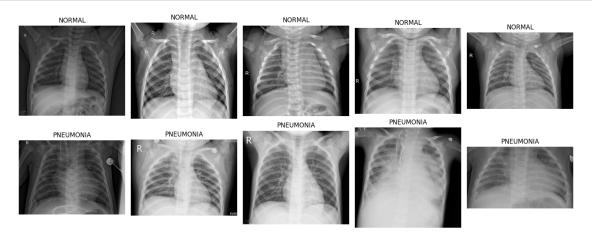
After training, it's essential to save the model weights to avoid retraining in the future.

```
[20]: # Save the model weights
torch.save(trained_model.state_dict(), "vit_chest_xray_model.pth")
```

1.10 Visualization of Sample Data

Displaying a few images from both NORMAL and PNEUMONIA classes to get a feel for the data.

[21]: display_images(train_dir)



```
[22]: def train_model(model, criterion, optimizer, train_loader, val_loader, u
       ⇒num_epochs=10):
          train_losses = []
          val_accuracies = []
          for epoch in range(num_epochs):
              model.train()
              # Training Phase
              running_loss = 0.0
              for images, labels in train_loader:
                  images, labels = images.to(device), labels.to(device)
                  optimizer.zero_grad()
                  outputs = model(images).logits
                  loss = criterion(outputs, labels)
                  loss.backward()
                  optimizer.step()
                  running_loss += loss.item() * images.size(0)
              avg_train_loss = running_loss / len(train_loader.dataset)
              train_losses.append(avg_train_loss)
              # Validation Phase
              model.eval()
```

```
correct = 0
total = 0
with torch.no_grad():
    for images, labels in val_loader:
        images, labels = images.to(device), labels.to(device)
        outputs = model(images).logits
        _, predicted = outputs.max(1)
        total += labels.size(0)
        correct += (predicted == labels).sum().item()

val_accuracy = 100 * correct / total
    val_accuracies.append(val_accuracy)

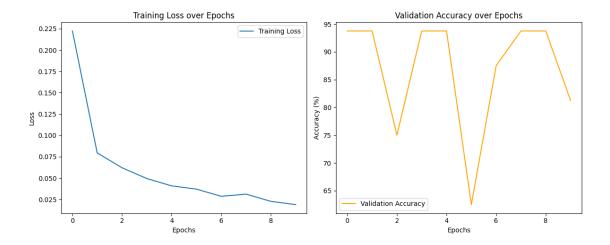
print(f"Epoch {epoch+1}/{num_epochs}, Loss: {avg_train_loss:.4f},___

Validation Accuracy: {val_accuracy:.2f}%")
```

1.11 Training and Validation Metrics Visualization

Plotting the training loss and validation accuracy to understand the model's learning progress.

```
[23]: plt.figure(figsize=(12, 5))
      # Plotting training loss
      plt.subplot(1, 2, 1)
      plt.plot(train_losses, label='Training Loss')
      plt.title('Training Loss over Epochs')
      plt.xlabel('Epochs')
      plt.ylabel('Loss')
      plt.legend()
      # Plotting validation accuracy
      plt.subplot(1, 2, 2)
      plt.plot(val accuracies, label='Validation Accuracy', color='orange')
      plt.title('Validation Accuracy over Epochs')
      plt.xlabel('Epochs')
      plt.ylabel('Accuracy (%)')
      plt.legend()
      plt.tight_layout()
      plt.show()
```



From the above graphs, we observe that the training loss decreased over time, which is a positive sign. The validation accuracy remains high, suggesting that the model generalizes well. The dip in accuracy around the second epoch followed by consistent high accuracy indicates that the model might have overcome some initial adaptation challenges but then consistently performed well.

1.12 Confusion Matrix

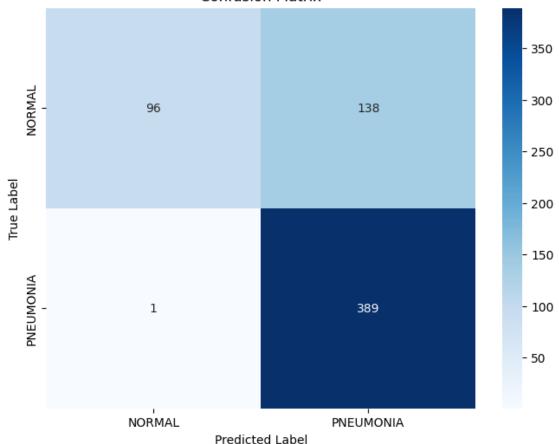
Visualizing the model's predictions using a confusion matrix to understand its performance in more detail.

```
[24]: from sklearn.metrics import confusion_matrix
      import seaborn as sns
      import matplotlib.pyplot as plt
      def plot_confusion_matrix(y_true, y_pred, classes):
          cm = confusion_matrix(y_true, y_pred)
          plt.figure(figsize=(8,6))
          sns.heatmap(cm, annot=True, fmt='d', cmap='Blues',
                      xticklabels=classes,
                      yticklabels=classes)
          plt.xlabel('Predicted Label')
          plt.ylabel('True Label')
          plt.title('Confusion Matrix')
          plt.show()
      # Getting the true labels and the predicted labels
      y_true = []
      y_pred = []
      with torch.no_grad():
          for images, labels in test_loader:
              images, labels = images.to(device), labels.to(device)
```

```
outputs = model(images).logits
    _, predicted = outputs.max(1)
    y_true.extend(labels.cpu().numpy())
    y_pred.extend(predicted.cpu().numpy())

# Now, we'll plot the confusion matrix
labels_list = ["NORMAL", "PNEUMONIA"]
plot_confusion_matrix(y_true, y_pred, labels_list)
```

Confusion Matrix



1.13 Classification Report

precision

```
[25]: from sklearn.metrics import classification_report

print("Classification Report:")

print(classification_report(y_true, y_pred, target_names=labels_list))

Classification Report:
```

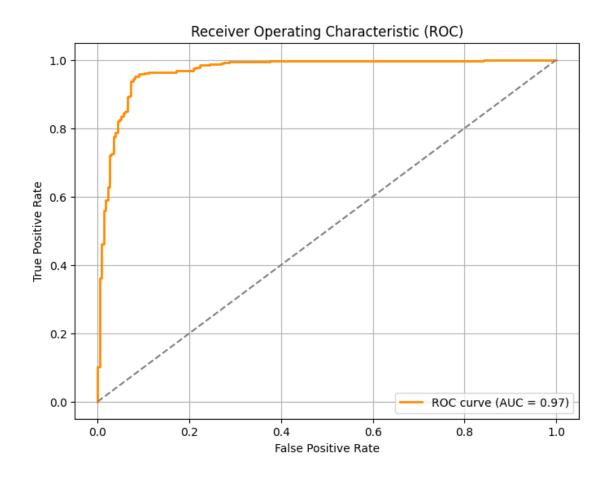
recall f1-score

support

| NORMAL | 0.99 | 0.41 | 0.58 | 234 |
|--------------|------|------|------|-----|
| PNEUMONIA | 0.74 | 1.00 | 0.85 | 390 |
| | | | | |
| accuracy | | | 0.78 | 624 |
| macro avg | 0.86 | 0.70 | 0.71 | 624 |
| weighted avg | 0.83 | 0.78 | 0.75 | 624 |

1.14 AUC & ROC Curve

```
[27]: from sklearn.metrics import roc_curve, auc
      # Get prediction probabilities for the positive class (PNEUMONIA)
      model.eval()
      y_probs = []
      with torch.no_grad():
          for images, _ in test_loader:
              images = images.to(device)
              outputs = model(images).logits
              probs = torch.softmax(outputs, dim=1)
              y_probs.extend(probs[:, 1].cpu().numpy()) # class index 1 = PNEUMONIA
      # Compute ROC curve and AUC
      fpr, tpr, _ = roc_curve(y_true, y_probs)
      roc_auc = auc(fpr, tpr)
      # Plotting
      plt.figure(figsize=(8, 6))
      plt.plot(fpr, tpr, color='darkorange', lw=2, label=f'ROC curve (AUC = {roc_auc:.
       →2f})')
      plt.plot([0, 1], [0, 1], color='gray', linestyle='--')
      plt.xlabel('False Positive Rate')
      plt.ylabel('True Positive Rate')
      plt.title('Receiver Operating Characteristic (ROC)')
      plt.legend()
      plt.grid()
      plt.show()
```



[]: