

Report

Task 1.1: Train the model from scratch

1. The implementation details

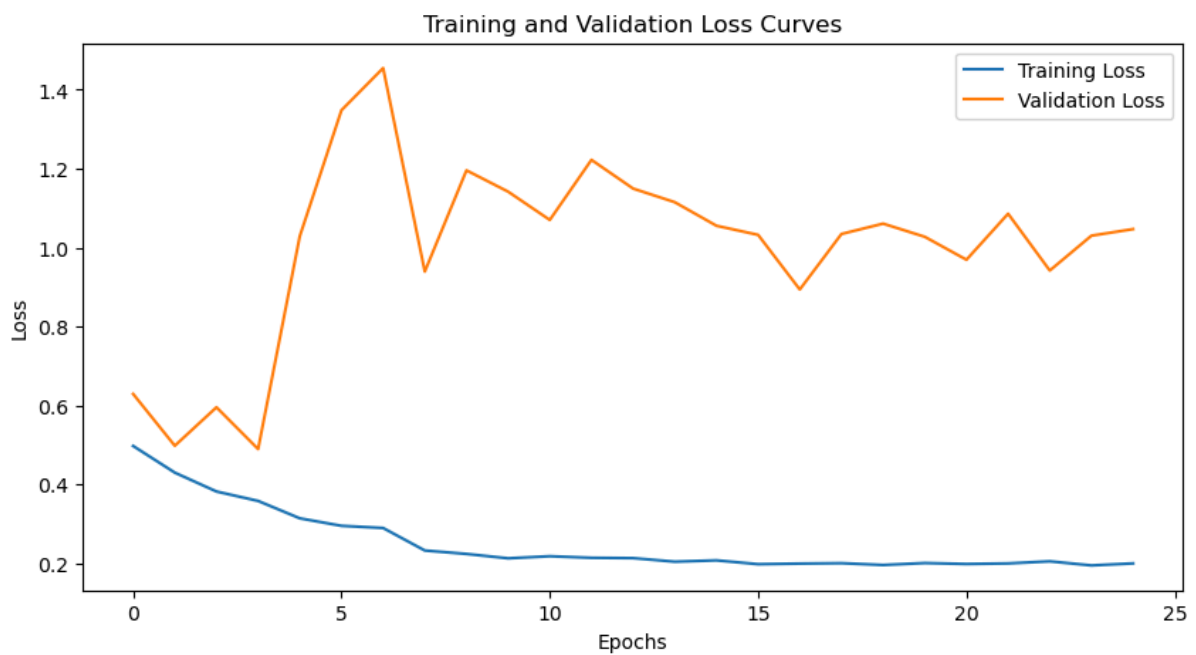
network architecture = ResNet18

learning rate = 0.001

batch size = 4

training epoch = 25

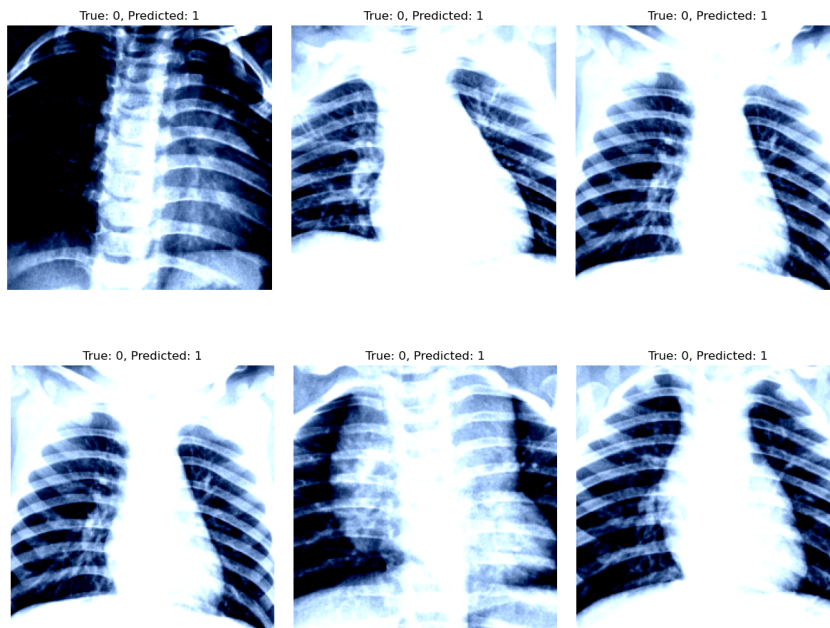
2. Plot for training and validation loss curves



3. Classification accuracies

- Overall: 89.26%
- Pneumonia: 97%
- Normal: 86%

4. Failure cases



Task 1.2: Pre-trained ResNet-18 model

1. The implementation details

network architecture = ResNet18

learning rate = 0.001

batch size = 4

training epoch = 25

2. Plot for training and validation loss curves



3. Classification accuracies

- Overall: 90.57%
- Pneumonia: 100%
- Normal: 91%

4. Failure cases

