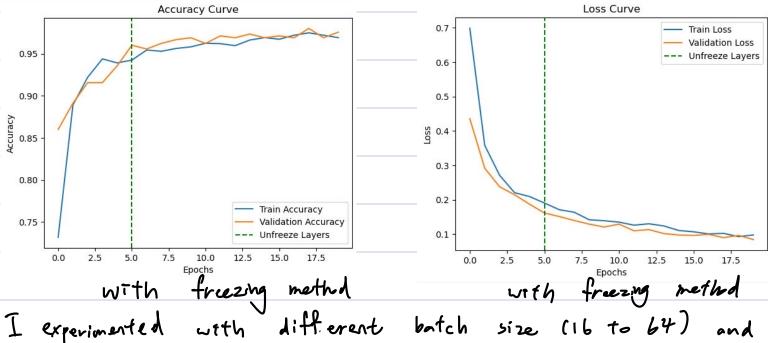
6648517090 Chen Jerry

Plot learning and accuracy curves for the training and validation sets. Include comments and/or

annotate the figures to indicate when you adjusted layer freezing and

changed the learning rate.



to 1e-3). The best result learning rate (e-5 batch Size of 64 and learning vate of 1e-3 provided move stable gradient updates, learning rate enabled forster wnvergence

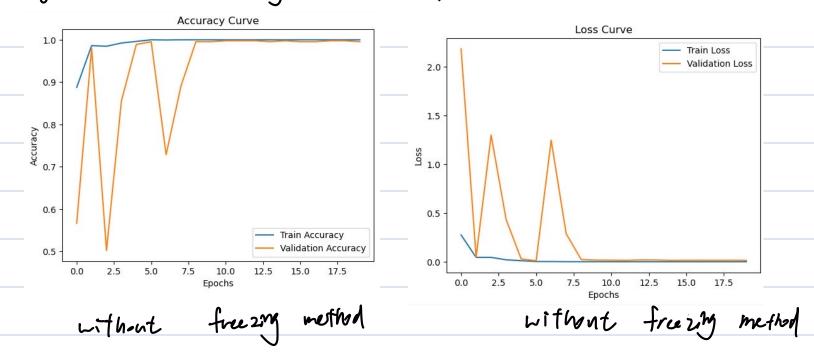
layer freezing part, without freezing, the validation accuracy exhibited significant fluctuations. This instability in learning due to the being trainable from the start. By contrast, 1.75 treezy validation accuracy Consistent improvement as the epoch progress, indicating

ninimal overfitting,

小th

training

layers, the accuracy further improves



Analysis:

Report the accuracy of the fine-tuned model on the testing set.

Compare the accuracy to the

baseline vanilla pretrained ResNet-34 model.

```
Evaluating: 100% | 8/8 [00:03<00:00, 2.40it/s]

Baseline Accuracy (Pretrained ResNet-34): 0.4378

Model inside evaluate_model: cuda:0

Evaluating: 100% | 8/8 [00:03<00:00, 2.43it/s]

Fine-Tuned Model Accuracy: 0.9489
```

Baseline Accuracy: The performance of the pretrained Res Net-34 model on the testing set before fine-tuning, which serves as a reference point (0.4378).

Fine-Tuned Accuracy: The performance of the file. Inned model on the same testing set (0.9489), showing the improvement achieved through the fine-funing process.

Confusion Matrix:



Precision - Reeall Curve

