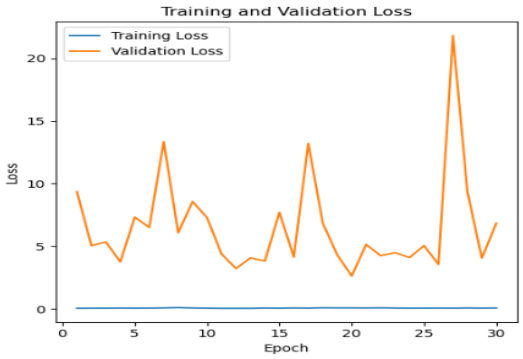
Report 4

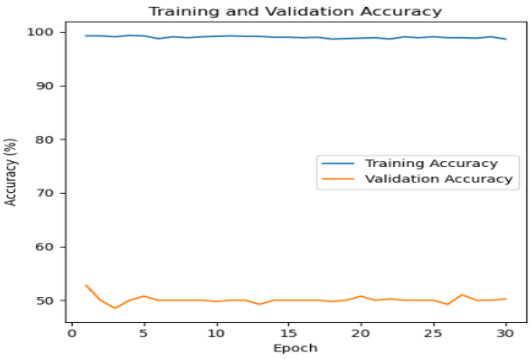
2014314143 Kim Kyu Yong

1. Using efficientnet_b0 model

   A. HighQuality-Face2Face

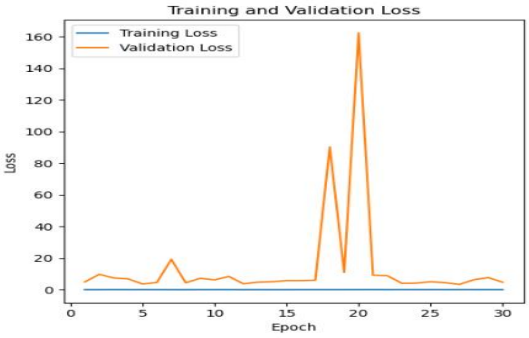
```
Test Accuracy: 0.51
Test Precision: 0.54
Test Recall: 0.51
Test F1 Score: 0.40

Best Validation Accuracy: 52.76%
```

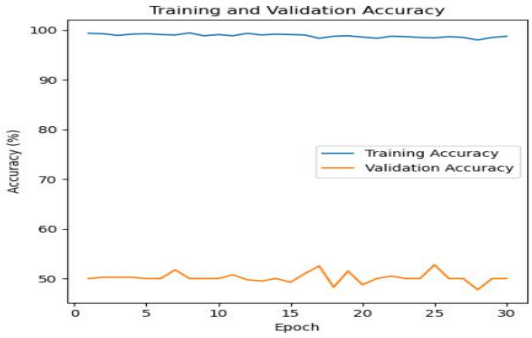




   B. HighQuality-NeuralTexture

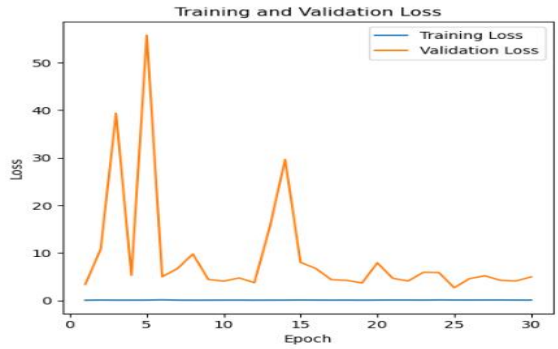
```
Test Accuracy: 0.50
Test Precision: 0.49
Test Recall: 0.50
Test F1 Score: 0.45

Best Validation Accuracy: 52.76%
```





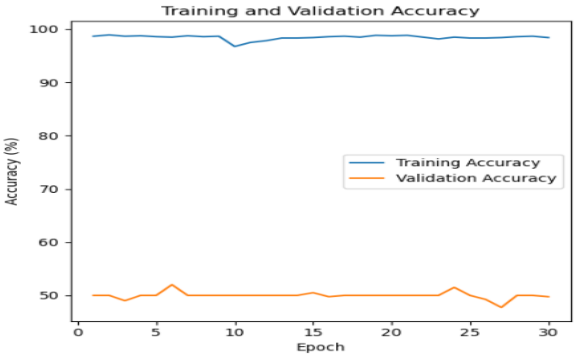
C. LowQuality-Face2Face

```
Test Accuracy: 0.50
Test Precision: 0.50
Test Recall: 0.50
Test F1 Score: 0.41

Best Validation Accuracy: 53.77%
```



D. LowQuality-NeuralTexture

```
Test Accuracy: 0.50
Test Precision: 0.51
Test Recall: 0.50
Test F1 Score: 0.43

Best Validation Accuracy: 52.01%
```

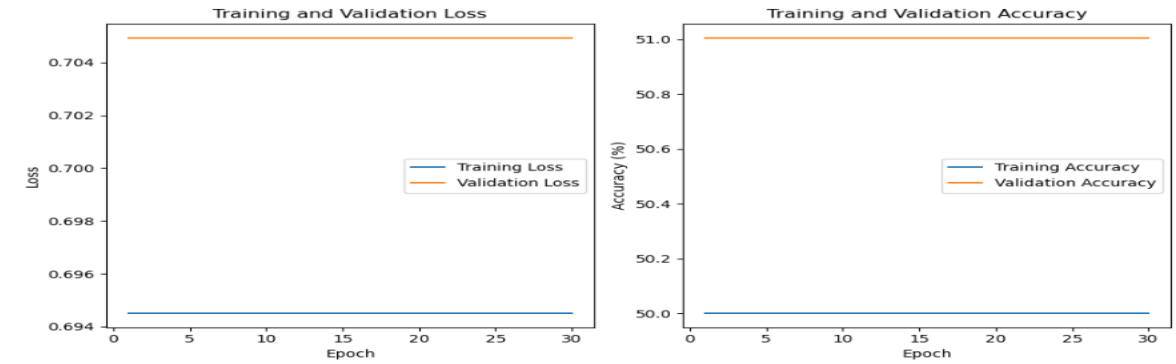


2. Using Xception model

Before I show you the result, python says that Xception doesn't use anymore so the code name 'xception' changes to 'legacy_xception'. Maybe because of this, the result graphs are weird.

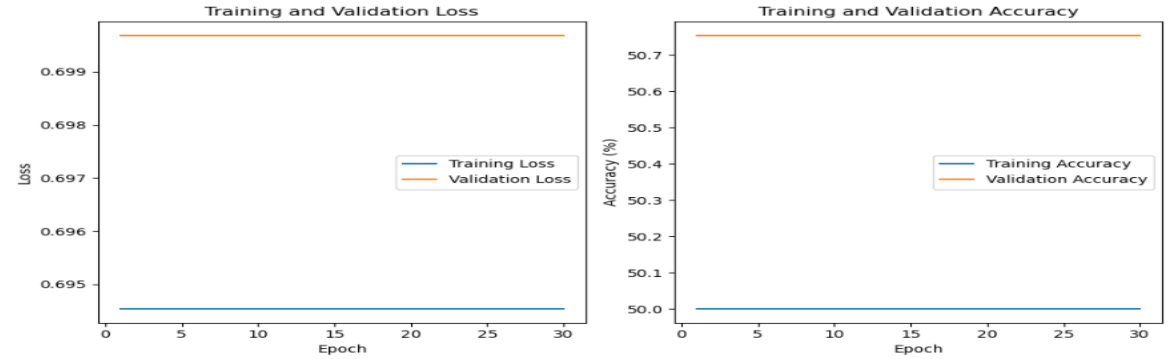
A. HighQuality-Face2Face

```
Test Accuracy: 0.50
Test Precision: 0.51
Test Recall: 0.50
Test F1 Score: 0.50

Best Validation Accuracy: 51.01%
```



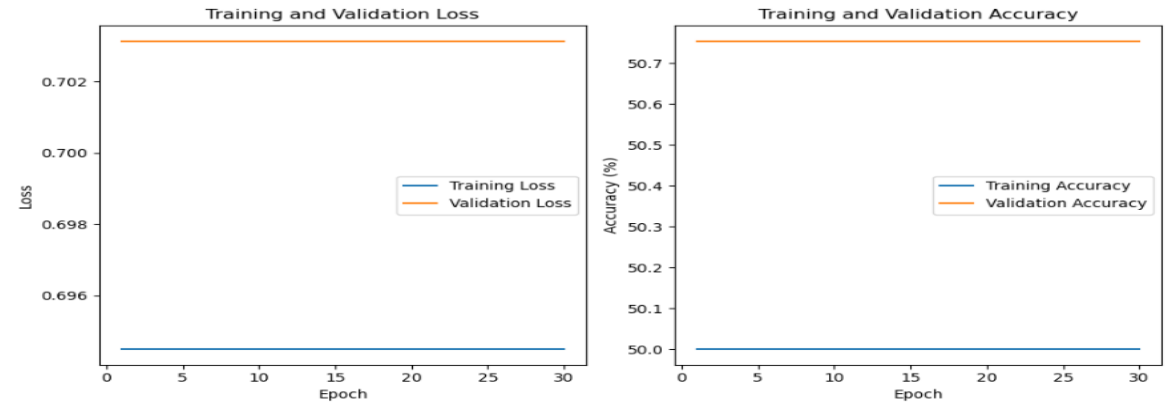
B. HighQuality-NeuralTexture

```
Test Accuracy: 0.53
Test Precision: 0.53
Test Recall: 0.53
Test F1 Score: 0.52

Best Validation Accuracy: 50.75%
```



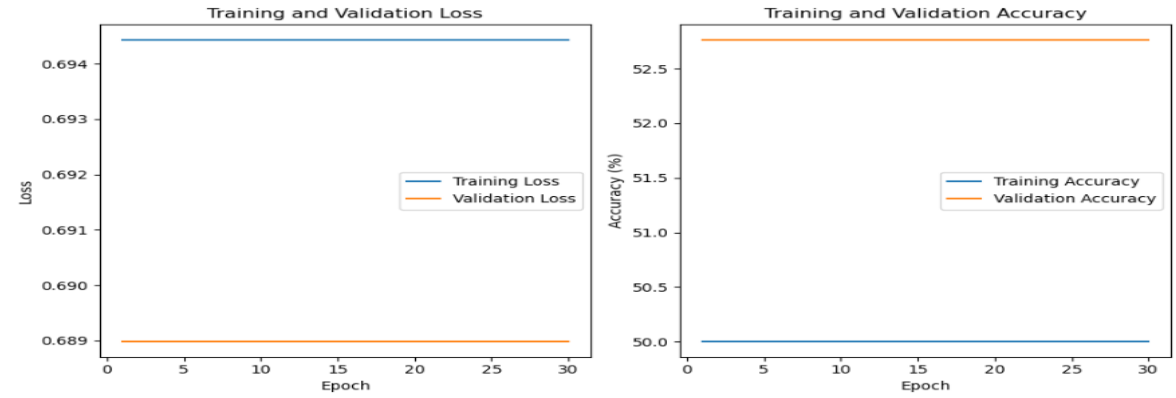
C. LowQuality-Face2Face

```
Test Accuracy: 0.52
Test Precision: 0.52
Test Recall: 0.52
Test F1 Score: 0.51

Best Validation Accuracy: 50.75%
```



D. LowQuality-NeuralTexture

```
Test Accuracy: 0.53
Test Precision: 0.54
Test Recall: 0.53
Test F1 Score: 0.52

Best Validation Accuracy: 52.76%
```



The code and the result files are here.

https://github.com/nimjk/BigDataReport.git