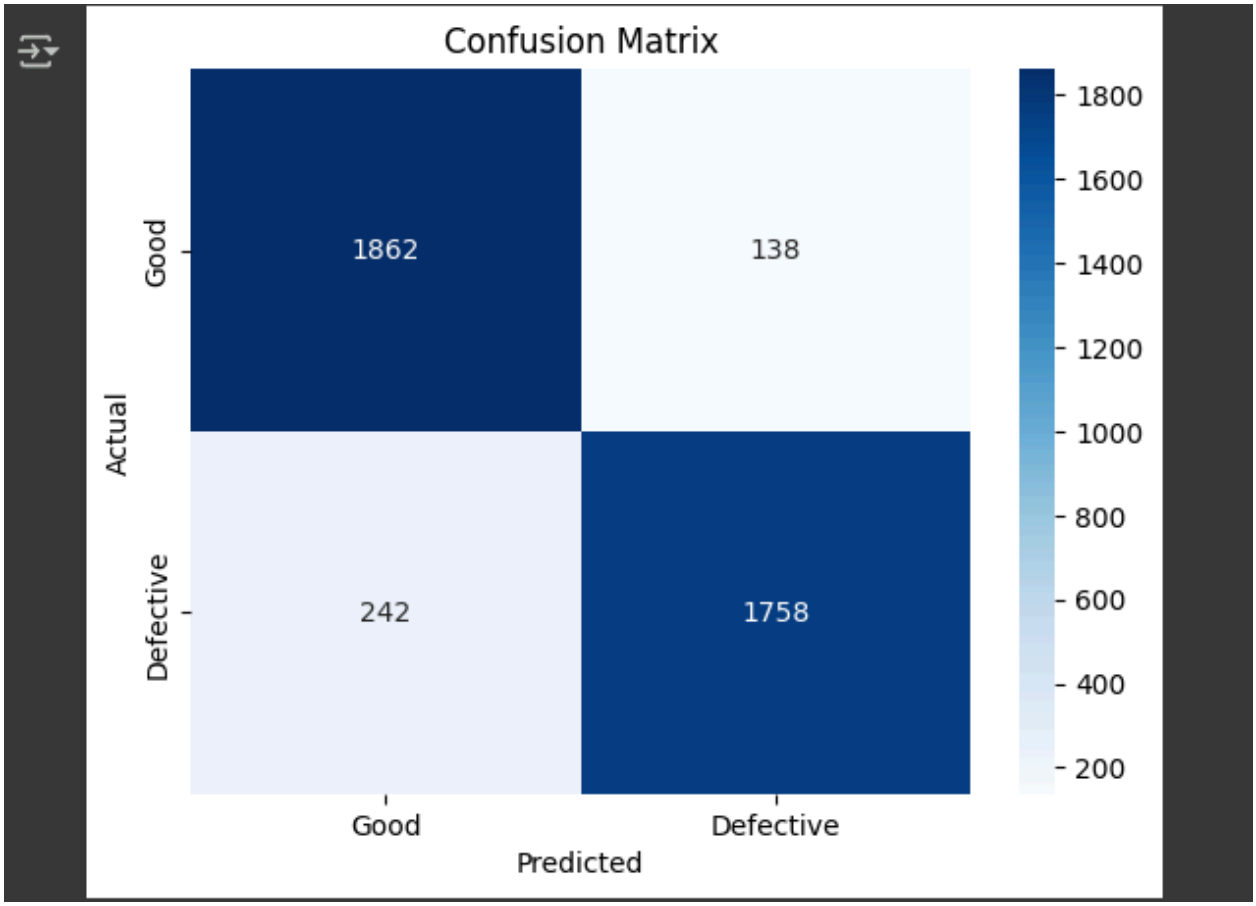
```
Downloading data from https://www.cs.toronto.edu/~kriz/cifar-10-python.tar.gz
170498071/170498071 ━━━━━━━━━━━━━━━━━━━━ 2s 0us/step
```

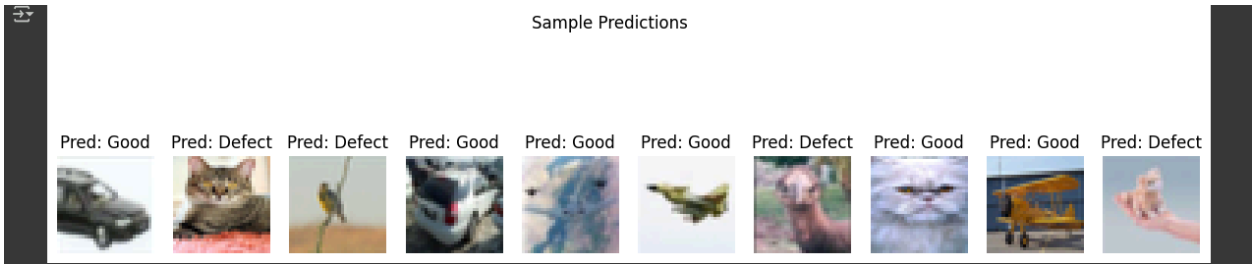
```
Training samples: 20000, Test samples: 4000
```

```
Epoch 1/5
625/625 ━━━━━━━━━━━━━━━━━━━━ 39s 55ms/step - accuracy: 0.7846 - loss: 0.4528 - val_accuracy: 0.8857 - val_loss: 0.2829
Epoch 2/5
625/625 ━━━━━━━━━━━━━━━━━━━━ 36s 48ms/step - accuracy: 0.8863 - loss: 0.2765 - val_accuracy: 0.8970 - val_loss: 0.2464
Epoch 3/5
625/625 ━━━━━━━━━━━━━━━━━━━━ 42s 50ms/step - accuracy: 0.8979 - loss: 0.2480 - val_accuracy: 0.8955 - val_loss: 0.2504
Epoch 4/5
625/625 ━━━━━━━━━━━━━━━━━━━━ 30s 47ms/step - accuracy: 0.9076 - loss: 0.2252 - val_accuracy: 0.9082 - val_loss: 0.2215
Epoch 5/5
625/625 ━━━━━━━━━━━━━━━━━━━━ 30s 48ms/step - accuracy: 0.9129 - loss: 0.2093 - val_accuracy: 0.9050 - val_loss: 0.2297
```

```
125/125 - 2s - 12ms/step - accuracy: 0.9050 - loss: 0.2297

Test accuracy: 0.90
```

```
125/125 ━━━━━━━━━━━━━━━━━━━━ 2s 13ms/step
              precision    recall  f1-score   support

        Good       0.88      0.93      0.91      2000
   Defective       0.93      0.88      0.90      2000

    accuracy                           0.91      4000
   macro avg       0.91      0.91      0.90      4000
weighted avg       0.91      0.91      0.90      4000
```


Confusion Matrix
1862
138
242
1758
Good
Defective
Actual
Good
Defective
Predicted
1800
1600
1400
1200
1000
800
600
400
200


Sample Predictions
Pred: Good
Pred: Defect
Pred: Defect
Pred: Good
Pred: Good
Pred: Good
Pred: Defect
Pred: Good
Pred: Good
Pred: Defect