



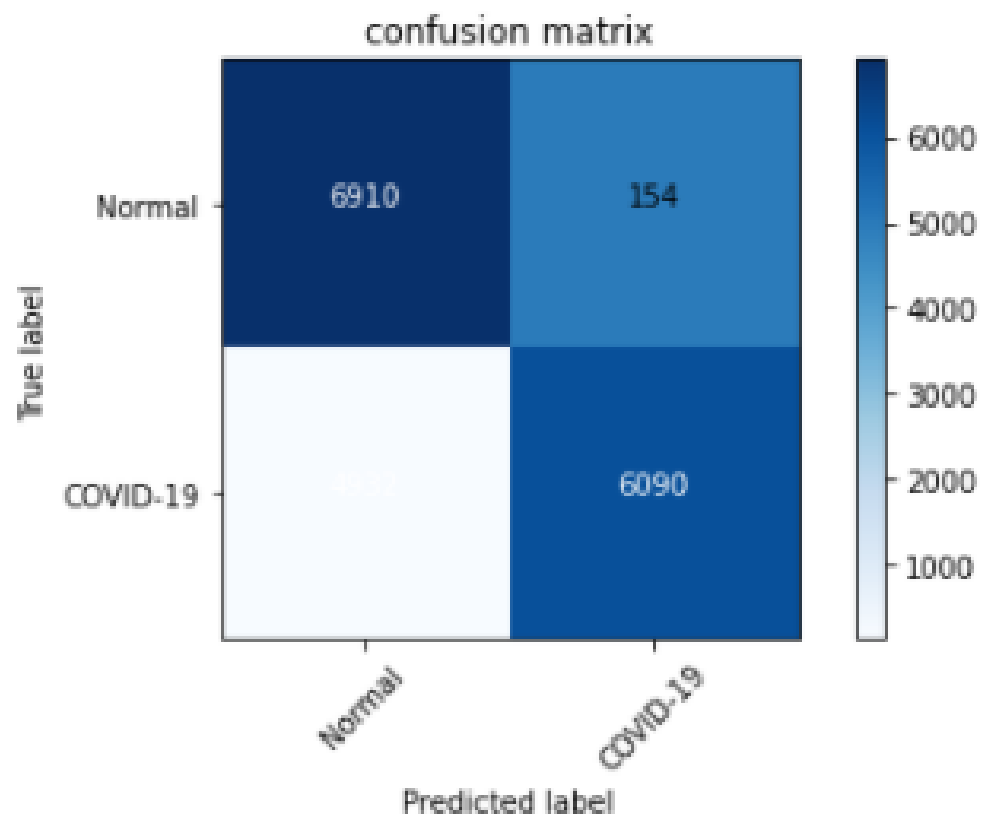
RESNET34-WOF

ON COVIDXCT

Epoch 0/9

train_total Loss: 0.4092 Acc: 86.2760%

Confusion matrix, without normalization



val_total Loss: 0.7484 Acc: 71.8788%

all_prediction:71.88

0	Normal	prediction= 97.82 %,	recall= 58.35 %,	f1= 73.1
---	--------	----------------------	------------------	----------

1	COVID-19	prediction= 55.25 %,	recall= 97.53 %,	f1= 70.54
---	----------	----------------------	------------------	-----------

MACRO-averaged:

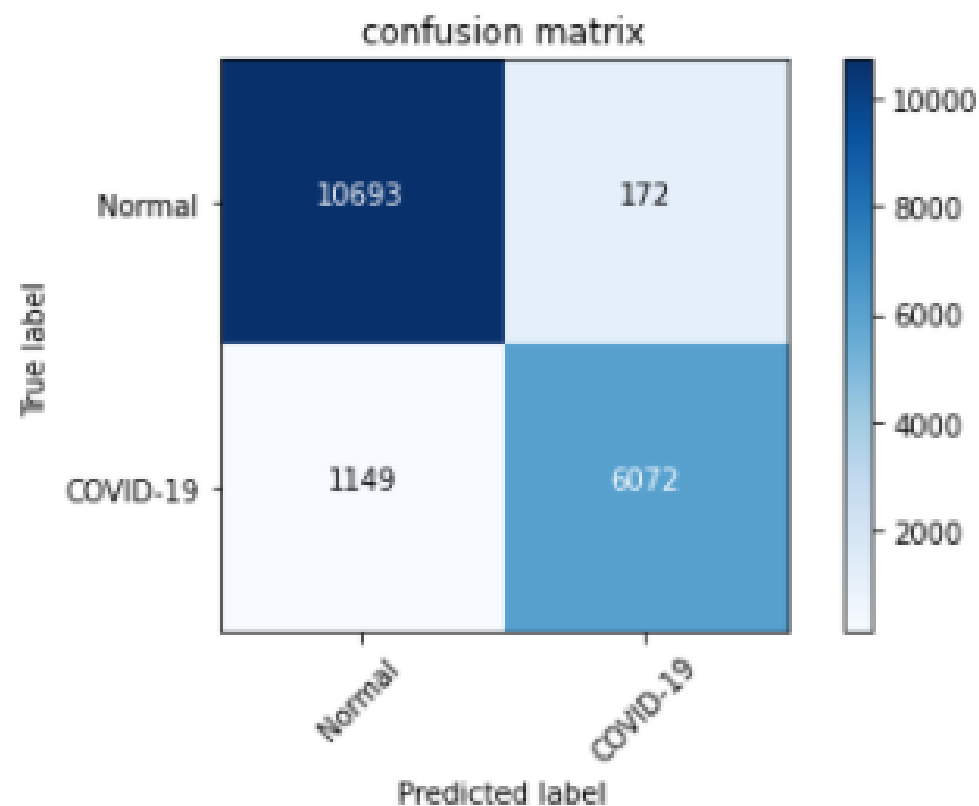
prediction= 76.54 %,recall= 77.94 %,f1= 77.23

Epoch1

Epoch 1/9

train_total Loss: 0.1277 Acc: 94.6737%

Confusion matrix, without normalization



val_total Loss: 0.1678 Acc: 92.6960%

all_prediction:92.7

0 Normal prediction= 98.42 %, recall= 90.3 %, f1= 94.19

1 COVID-19 prediction= 84.09 %, recall= 97.25 %, f1= 90.19

MACRO-averaged:

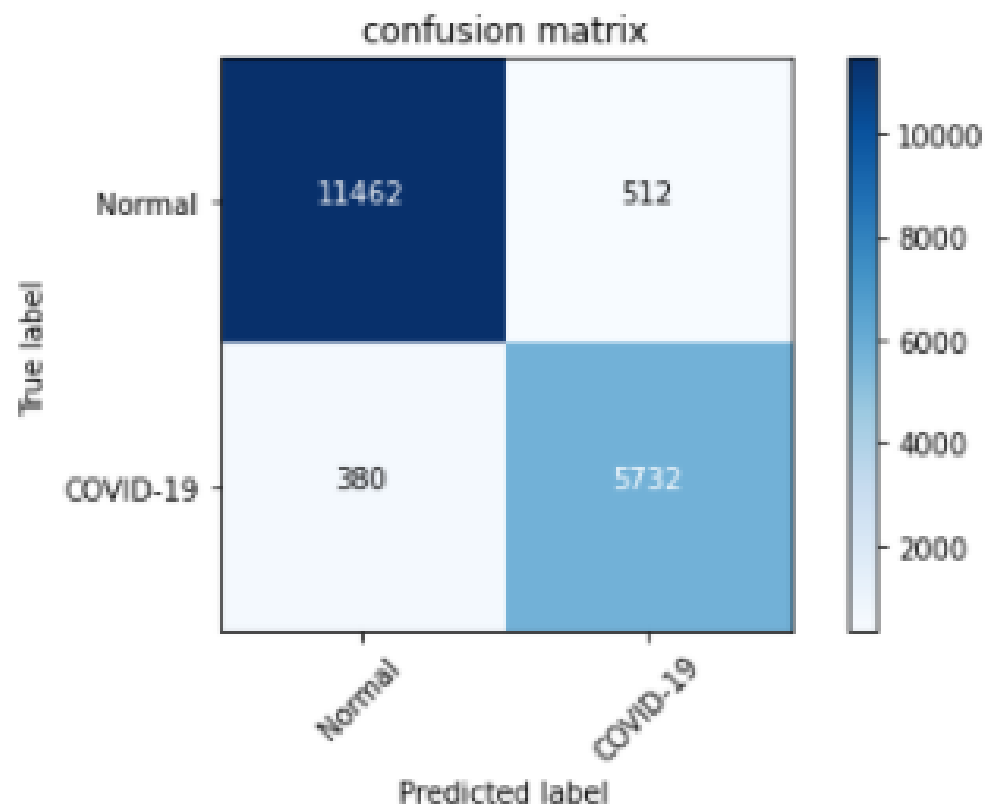
prediction= 91.26 %, recall= 93.78 %, f1= 92.5

Epoch2

Epoch 2/9

train_total Loss: 0.1075 Acc: 95.6291%

Confusion matrix, without normalization



val_total Loss: 0.1149 Acc: 95.0680%

all_prediction:95.07

0 Normal prediction= 95.72 %, recall= 96.79 %, f1= 96.25

1 COVID-19 prediction= 93.78 %, recall= 91.8 %, f1= 92.78

MACRO-averaged:

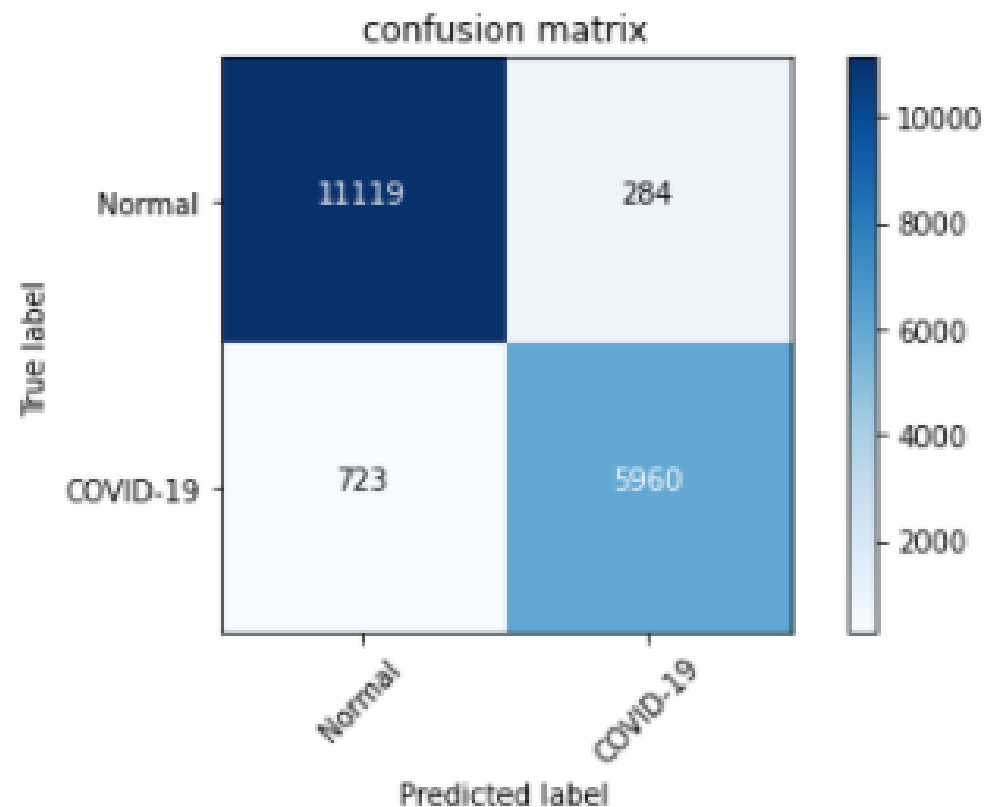
prediction= 94.75 %,recall= 94.3 %,f1= 94.52

Epoch3

Epoch 3/9

train_total Loss: 0.0962 Acc: 96.1101%

Confusion matrix, without normalization



val_total Loss: 0.1273 Acc: 94.4322%

all_prediction:94.43

0	Normal	prediction= 97.51 %,	recall= 93.89 %,	f1= 95.6%
---	--------	----------------------	------------------	-----------

1	COVID-19	prediction= 89.18 %,	recall= 95.45 %,	f1= 92.2%
---	----------	----------------------	------------------	-----------

MACRO-averaged:

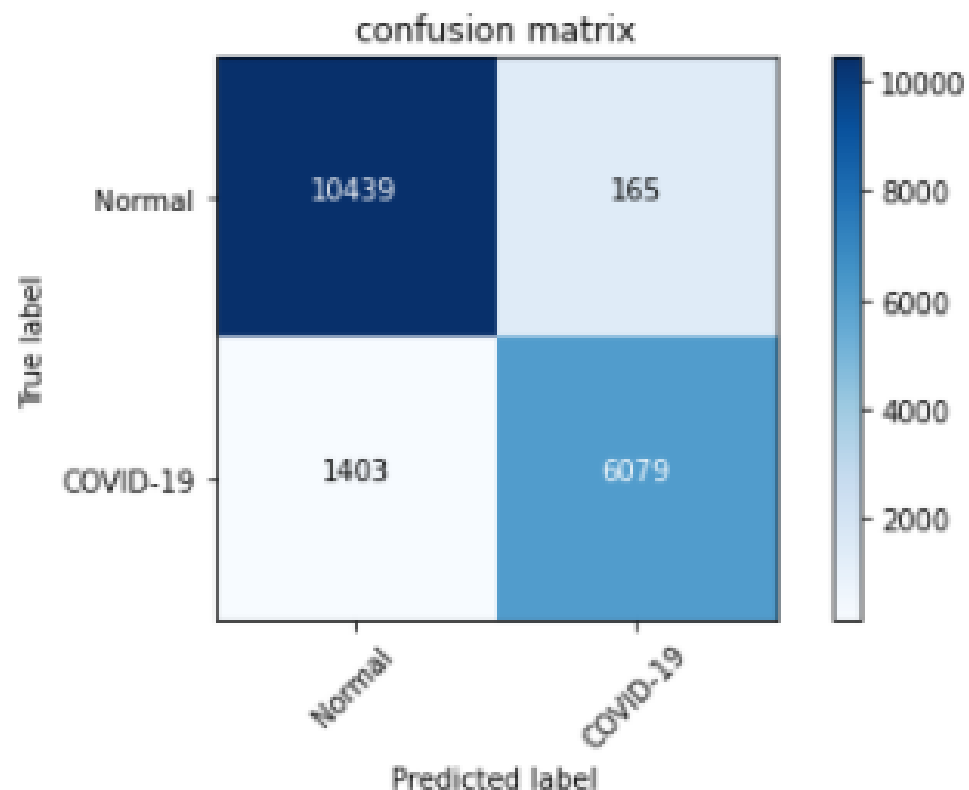
prediction= 93.34 %,recall= 94.67 %,f1= 94.0

Epoch4

Epoch 4/9

train_total Loss: 0.0854 Acc: 96.6039%

Confusion matrix, without normalization



val_total Loss: 0.2040 Acc: 91.3303%

all_prediction:91.33

0	Normal	prediction= 98.44 %,	recall= 88.15 %,	f1= 93.01
---	--------	----------------------	------------------	-----------

1	COVID-19	prediction= 81.25 %,	recall= 97.36 %,	f1= 88.58
---	----------	----------------------	------------------	-----------

MACRO-averaged:

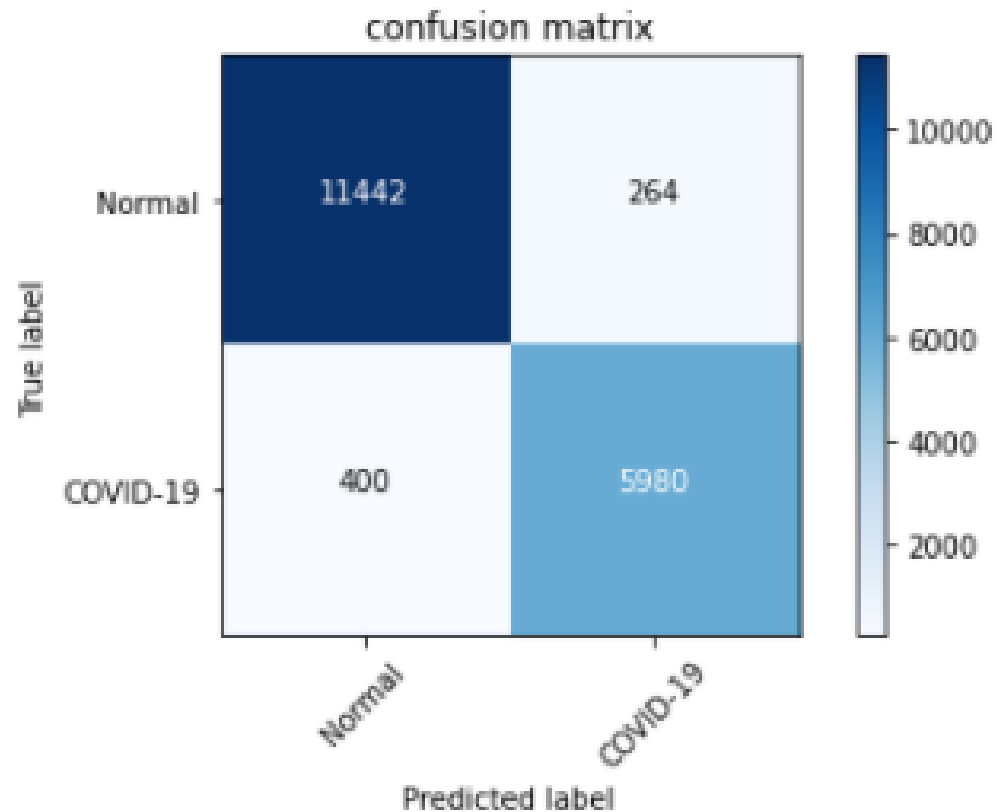
prediction= 89.84 %,recall= 92.76 %,f1= 91.28

Epoch5

Epoch 5/9

train_total Loss: 0.0784 Acc: 96.9488%

Confusion matrix, without normalization



val_total Loss: 0.0947 Acc: 96.3287%

all_prediction:96.33

0	Normal	prediction= 97.74 %,	recall= 96.62 %,	f1= 97.18
---	--------	----------------------	------------------	-----------

1	COVID-19	prediction= 93.73 %,	recall= 95.77 %,	f1= 94.74
---	----------	----------------------	------------------	-----------

MACRO-averaged:

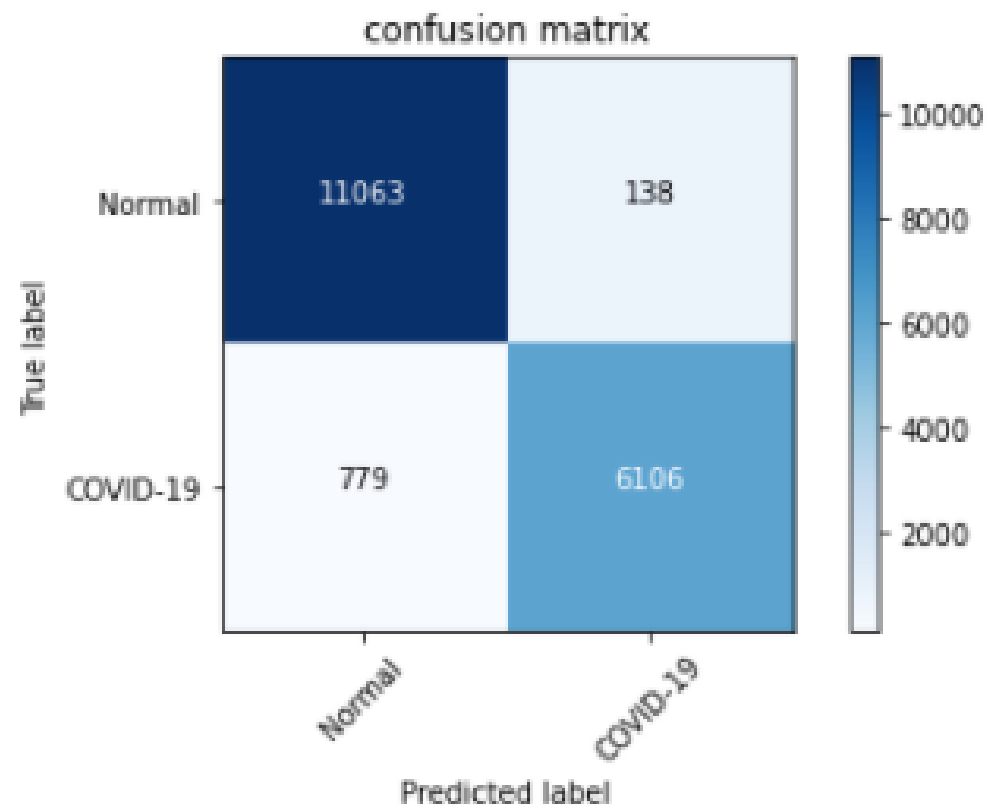
prediction= 95.74 %,recall= 96.2 %,f1= 95.97

Epoch6

Epoch 6/9

train_total Loss: 0.0701 Acc: 97.2971%

Confusion matrix, without normalization



val_total Loss: 0.1217 Acc: 94.9298%

all_prediction:94.93

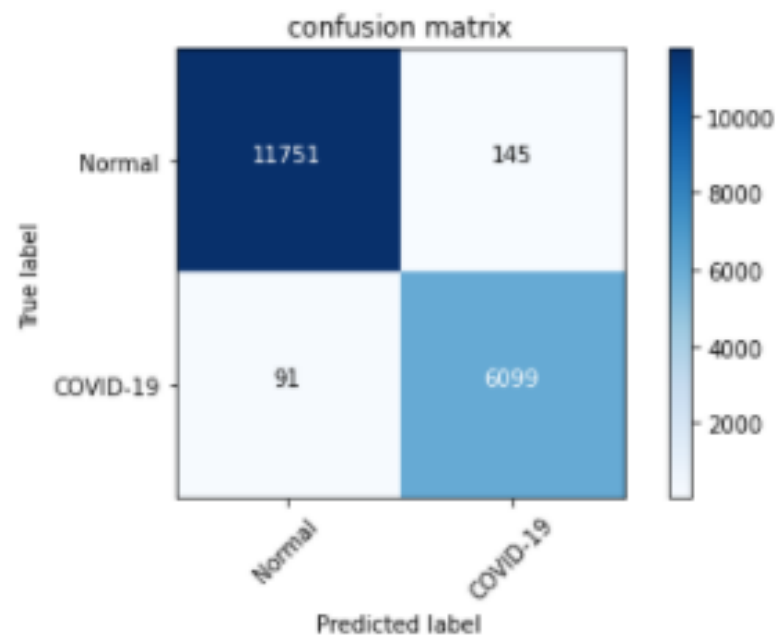
0 Normal prediction= 98.77 %, recall= 93.42 %, f1= 96.02

1 COVID-19 prediction= 88.69 %, recall= 97.79 %, f1= 93.02

MACRO-averaged:

prediction= 93.73 %,recall= 95.6 %,f1= 94.66

Epoch7



Results

- Trained for 25 epochs
- Took almost 8-9 hrs
- Best Acc : 98.8%
- Test Acc : 98.6%

```
val_total Loss: 0.0400 Acc: 98.6951%
```

```
all_prediction:98.7
```

```
0      Normal      prediction= 98.78 %,   recall= 99.23 %,       f1= 99.0
```

```
1      COVID-19    prediction= 98.53 %,   recall= 97.68 %,       f1= 98.1
```

```
MACRO-averaged:
```

```
prediction= 98.66 %,recall= 98.46 %,f1= 98.56
```

```
*****
```

```
best_acc:0.9879464779387372
```