

# DENSENET Mobile

		5 Epochs	10 Epochs	15 Epochs
Training Accuracy		99.61%	99.85%	98.71%
Testing Accuracy		99.26%	99.50%	96.77%
Macro Avg.	Precision	99.56%	98.65%	95.32%
	Recall	99.02%	99.71%	98.21%
	F1 Score	99.28%	98.68%	96.66%
BFlops		7071037		
Inference Time		0.057Second	0.057 Second	0.058 Second
Size of Model		30.3 MB		

## Classification Report & Confusion Matrix

### 5 Epochs

For Training				
	precision	recall	f1-score	support
0	1.00	0.99	0.99	864
1	0.99	1.00	1.00	1971
2	1.00	0.99	0.99	437
3	1.00	1.00	1.00	834
accuracy			1.00	4106
macro avg	1.00	0.99	1.00	4106
weighted avg	1.00	1.00	1.00	4106
[[ 853 7 0 4]				
[ 0 1971 0 0]				
[ 0 5 432 0]				
[ 0 0 0 834]]				
For Testing				
	precision	recall	f1-score	support
0	1.00	0.99	0.99	148
1	0.98	1.00	0.99	166
2	1.00	0.97	0.99	39
3	1.00	1.00	1.00	50
accuracy			0.99	403
macro avg	1.00	0.99	0.99	403
weighted avg	0.99	0.99	0.99	403
[[146 2 0 0]				
[ 0 166 0 0]				
[ 0 1 38 0]				
[ 0 0 0 50]]				

### 10 Epochs

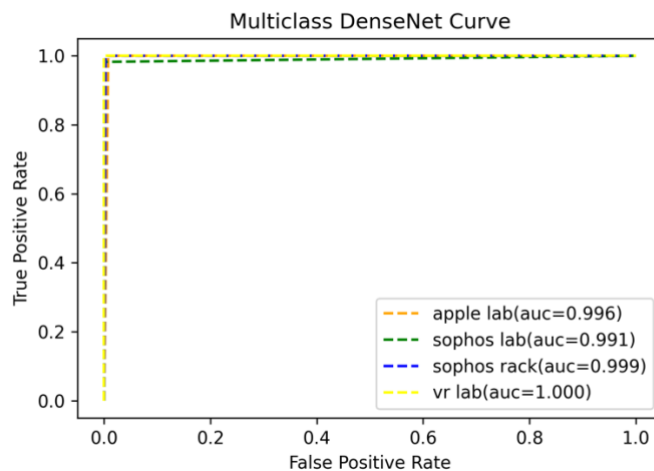
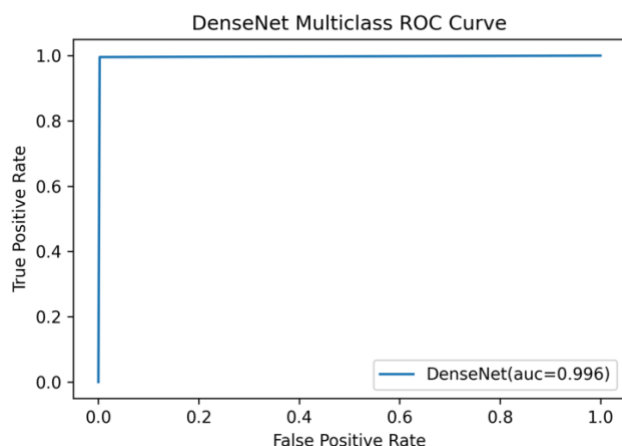
For Training				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	856
1	1.00	1.00	1.00	1984
2	1.00	1.00	1.00	431
3	1.00	1.00	1.00	835
accuracy			1.00	4106
macro avg	1.00	1.00	1.00	4106
weighted avg	1.00	1.00	1.00	4106
[[ 853 2 0 1]				
[ 0 1981 1 2]				
[ 0 0 431 0]				
[ 0 0 0 835]]				
For Testing				
	precision	recall	f1-score	support
0	0.99	1.00	0.99	144
1	1.00	0.99	0.99	171
2	1.00	1.00	1.00	38
3	1.00	1.00	1.00	50
accuracy			1.00	403
macro avg	1.00	1.00	1.00	403
weighted avg	1.00	1.00	1.00	403
[[144 0 0 0]				
[ 2 169 0 0]				
[ 0 0 38 0]				
[ 0 0 0 50]]				

### 15 Epochs

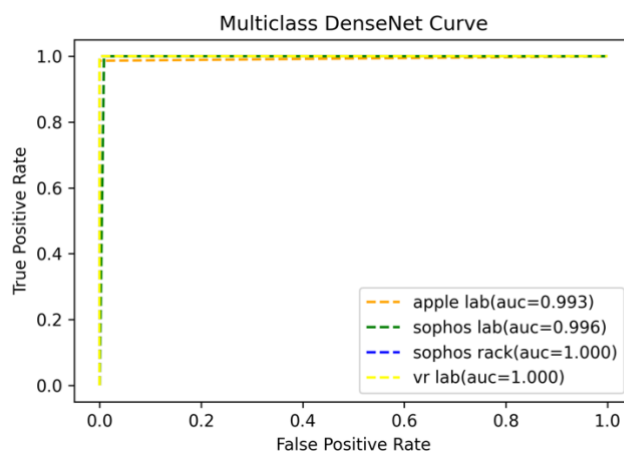
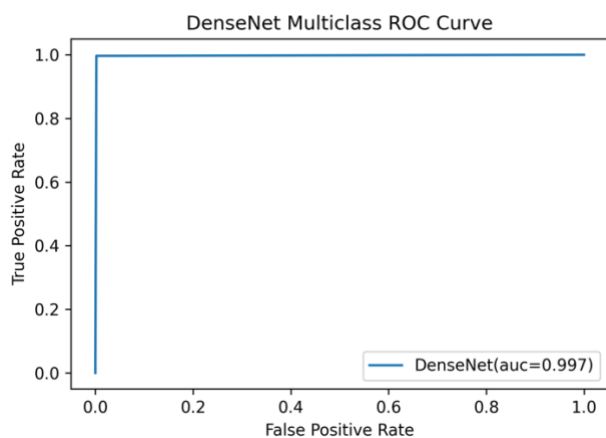
For Training				
	precision	recall	f1-score	support
0	0.98	1.00	0.99	837
1	1.00	0.97	0.99	2035
2	0.97	1.00	0.98	419
3	0.97	1.00	0.99	815
accuracy			0.99	4106
macro avg	0.98	0.99	0.99	4106
weighted avg	0.99	0.99	0.99	4106
[[ 836 0 0 1]				
[ 17 1983 13 22]				
[ 0 0 419 0]				
[ 0 0 0 815]]				
For Testing				
	precision	recall	f1-score	support
0	0.95	1.00	0.98	139
1	1.00	0.93	0.96	182
2	0.92	1.00	0.96	35
3	0.94	1.00	0.97	47
accuracy			0.97	403
macro avg	0.95	0.98	0.97	403
weighted avg	0.97	0.97	0.97	403
[[139 0 0 0]				
[ 7 169 3 3]				
[ 0 0 35 0]				
[ 0 0 0 47]]				

# ROC Curve

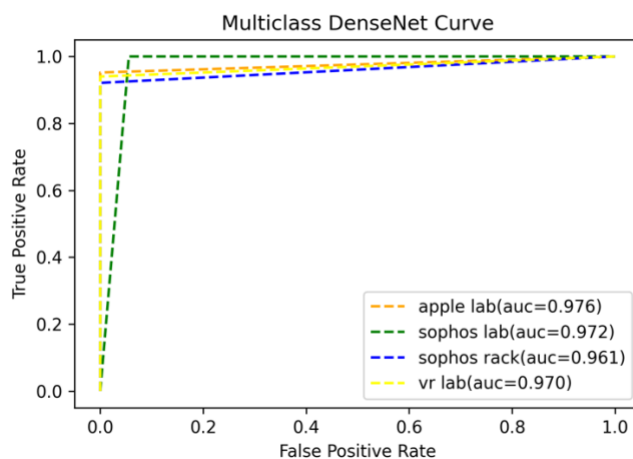
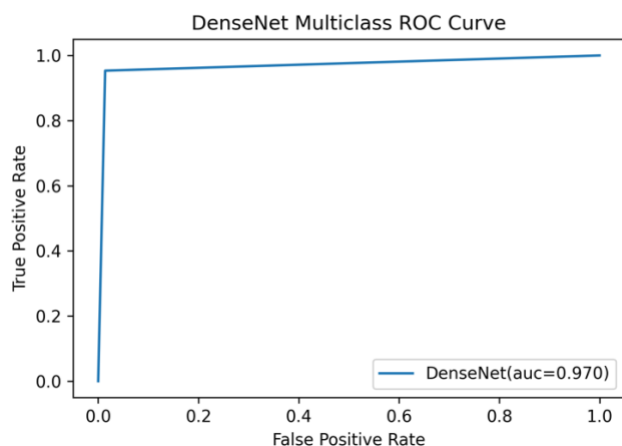
## 5 Epochs



## 10 Epochs

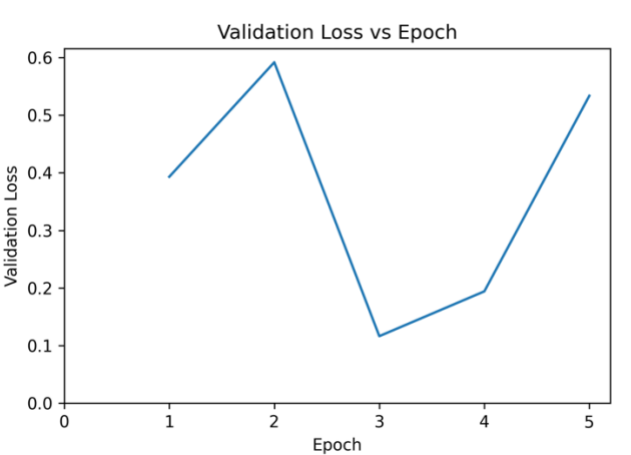
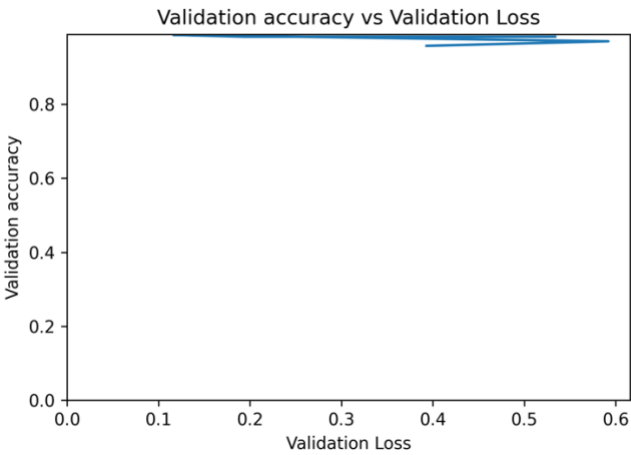
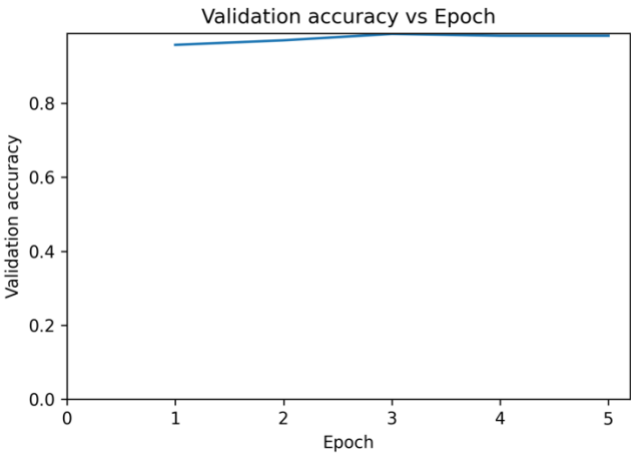
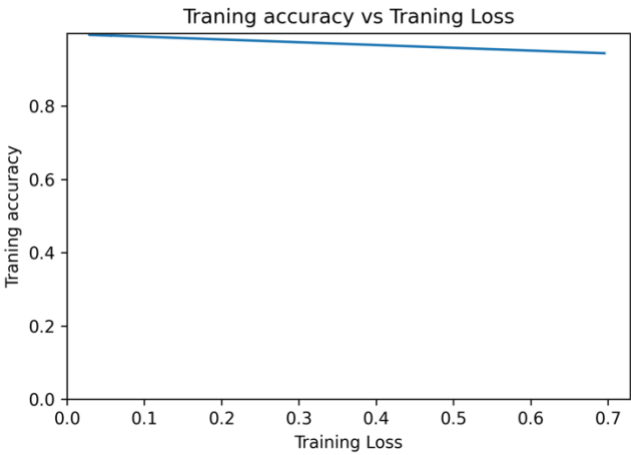
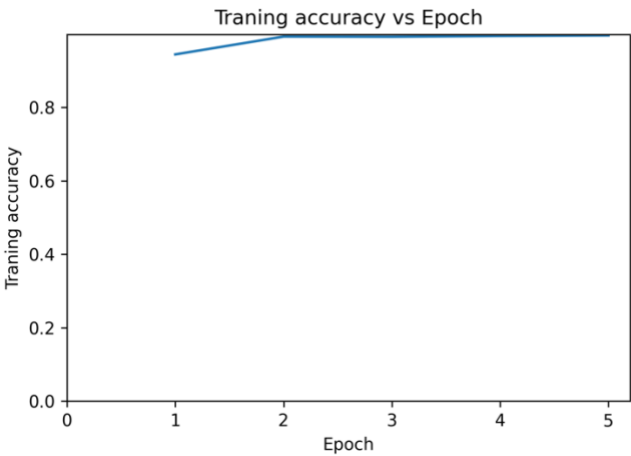
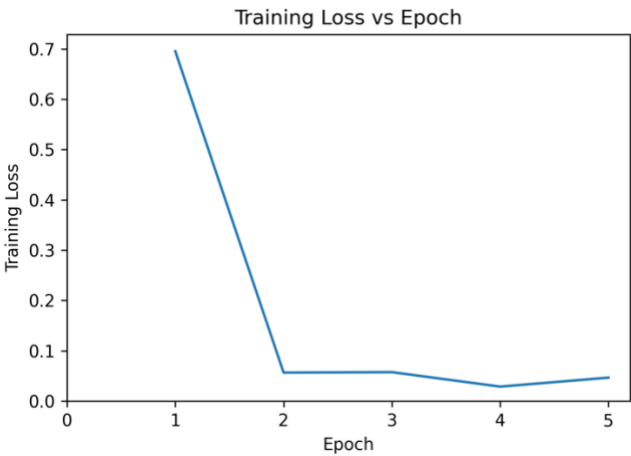


## 15 Epochs

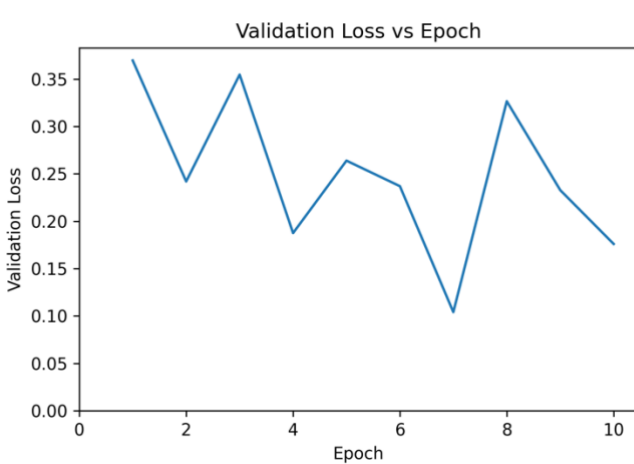
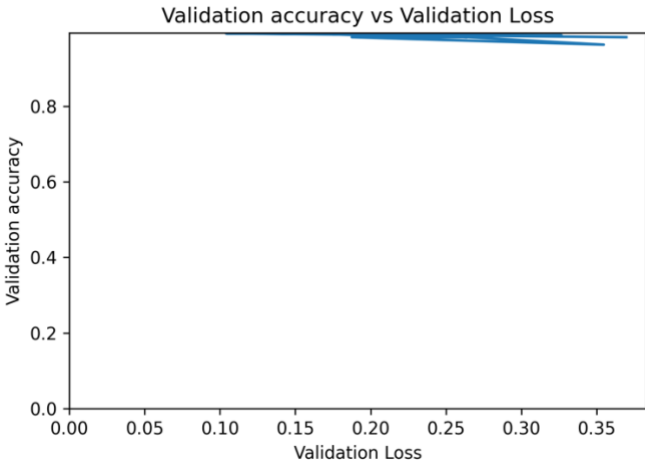
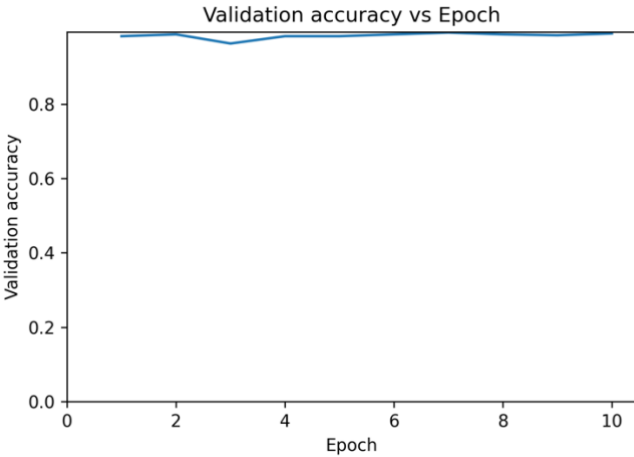
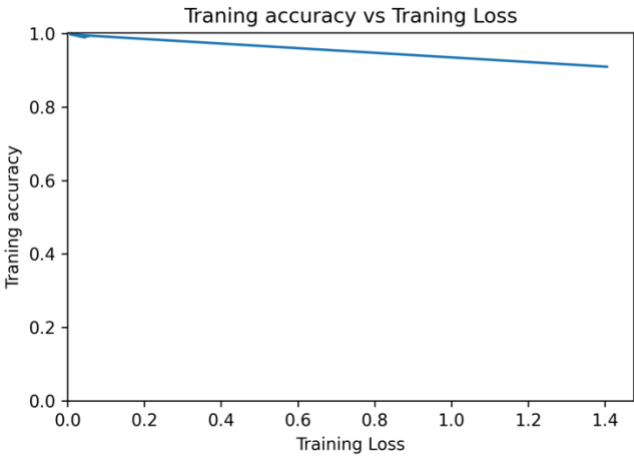
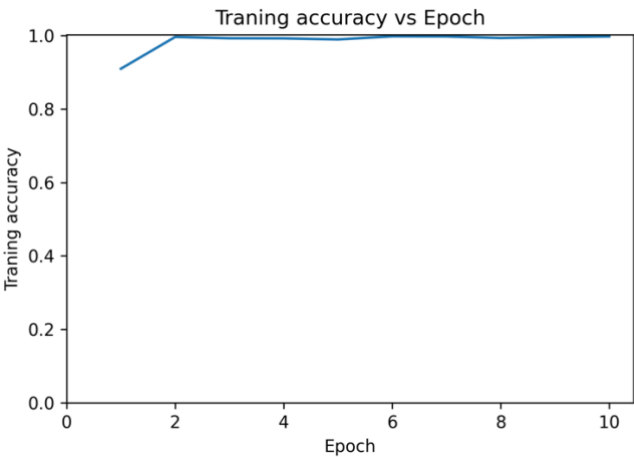
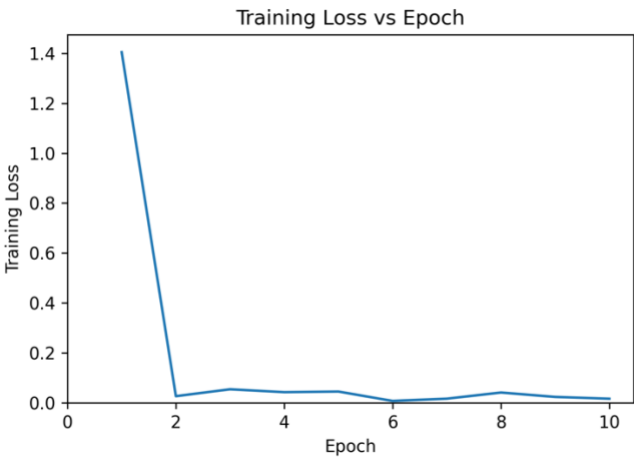


# Graphs

## 5 Epochs



# 10 Epochs



15 Epochs

