

Nasnet Mobile

		5 Epochs	10 Epochs	15 Epochs
Training Accuracy		98.19%	99.54%	99.56%
Testing Accuracy		99.25%	99.26%	98.26%
Macro Avg.	Precision	99.18%	98.85%	98.96%
	Recall	99.53%	99.02%	96.49%
	F1 Score	99.35%	98.92%	97.64%
BFlops		4403541		
Inference Time		0.063Second	0.055 Second	0.055 Second
Size of Model		20.7 MB		

Classification Report & Confusion Matrix

5 Epochs

For Training				
	precision	recall	f1-score	support
0	1.00	0.94	0.97	906
1	1.00	0.99	0.99	1997
2	0.98	1.00	0.99	424
3	0.93	1.00	0.96	779
accuracy			0.98	4106
macro avg	0.98	0.98	0.98	4106
weighted avg	0.98	0.98	0.98	4106
[[852 4 0 50]				
[1 1978 9 9]				
[0 0 1 423 0]				
[0 0 0 0 779]]				
For Testing				
	precision	recall	f1-score	support
0	0.99	0.99	0.99	146
1	0.99	0.99	0.99	170
2	1.00	1.00	1.00	38
3	0.98	1.00	0.99	49
accuracy			0.99	403
macro avg	0.99	1.00	0.99	403
weighted avg	0.99	0.99	0.99	403
[[145 1 0 0]				
[1 168 0 1]				
[0 0 38 0]				
[0 0 0 0 49]]				

10 Epochs

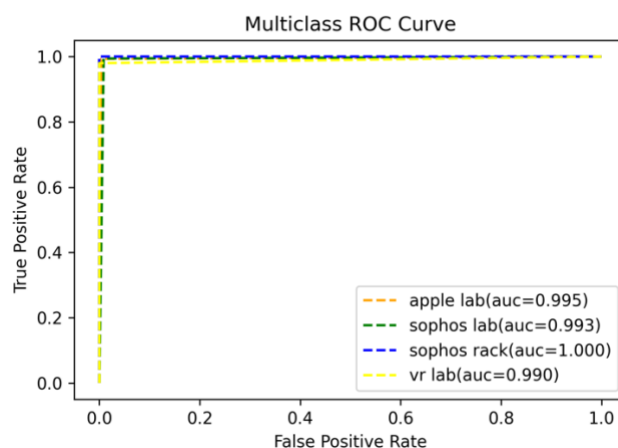
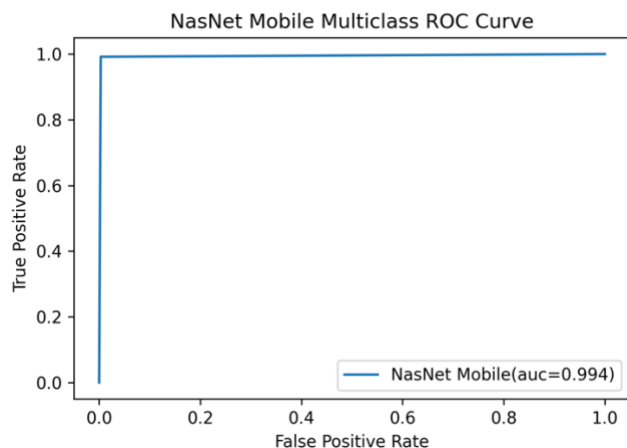
For Training				
	precision	recall	f1-score	support
0	1.00	0.98	0.99	865
1	1.00	1.00	1.00	1986
2	1.00	1.00	1.00	432
3	0.98	1.00	0.99	823
accuracy			1.00	4106
macro avg	0.99	0.99	0.99	4106
weighted avg	1.00	1.00	1.00	4106
[[852 0 0 13]				
[0 1982 2 2]				
[1 1 430 0]				
[0 0 0 0 823]]				
For Testing				
	precision	recall	f1-score	support
0	1.00	0.99	0.99	148
1	0.99	1.00	1.00	168
2	1.00	0.97	0.99	39
3	0.96	1.00	0.98	48
accuracy			0.99	403
macro avg	0.99	0.99	0.99	403
weighted avg	0.99	0.99	0.99	403
[[146 0 0 2]				
[0 168 0 0]				
[0 1 38 0]				
[0 0 0 0 48]]				

15 Epochs

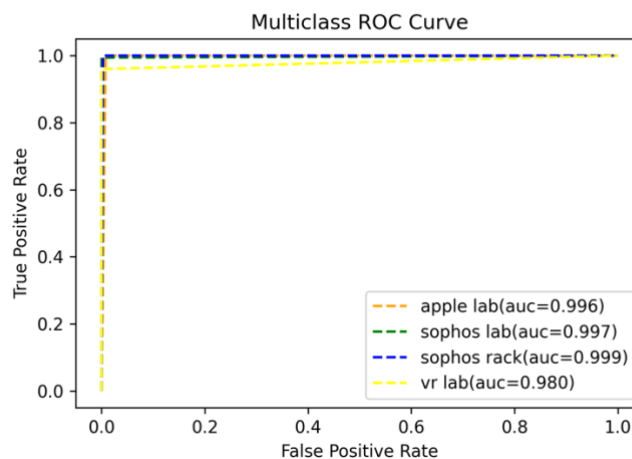
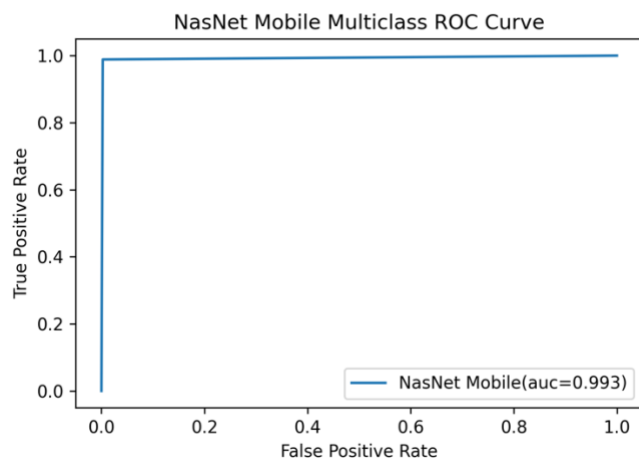
For Training				
	precision	recall	f1-score	support
0	1.00	0.98	0.99	865
1	0.99	1.00	1.00	1968
2	1.00	1.00	1.00	433
3	1.00	1.00	1.00	840
accuracy			1.00	4106
macro avg	1.00	0.99	1.00	4106
weighted avg	1.00	1.00	1.00	4106
[[852 13 0 0]				
[0 1967 1 0]				
[0 2 431 0]				
[1 1 0 838]]				
For Testing				
	precision	recall	f1-score	support
0	1.00	0.99	1.00	147
1	0.96	1.00	0.98	162
2	1.00	0.90	0.95	42
3	1.00	0.96	0.98	52
accuracy			0.98	403
macro avg	0.99	0.96	0.98	403
weighted avg	0.98	0.98	0.98	403
[[146 1 0 0]				
[0 162 0 0]				
[0 4 38 0]				
[0 2 0 50]]				

ROC Curve

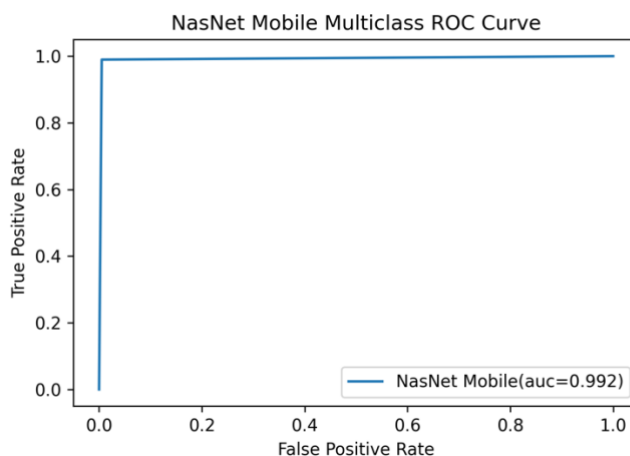
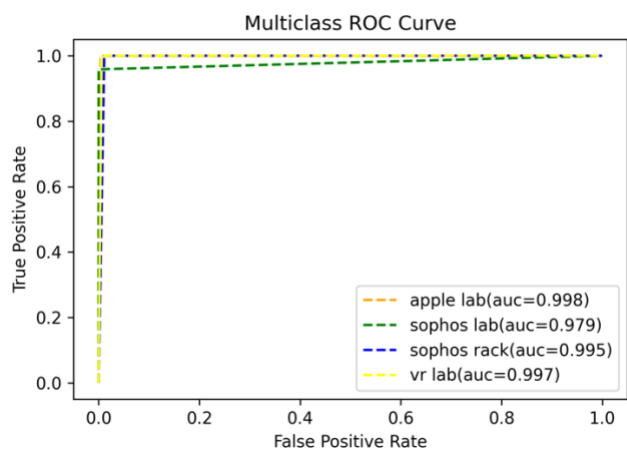
5 Epochs



10 Epochs

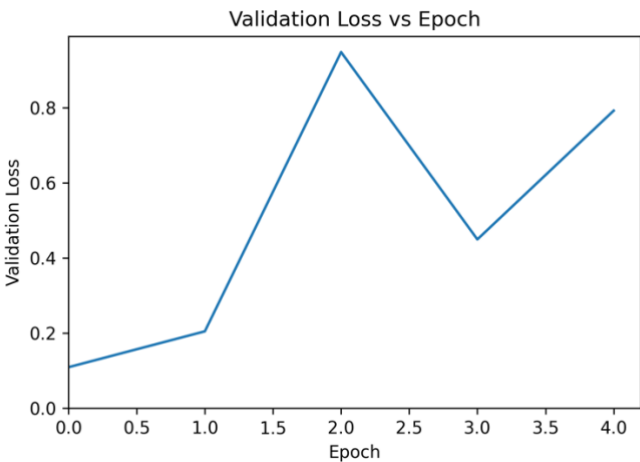
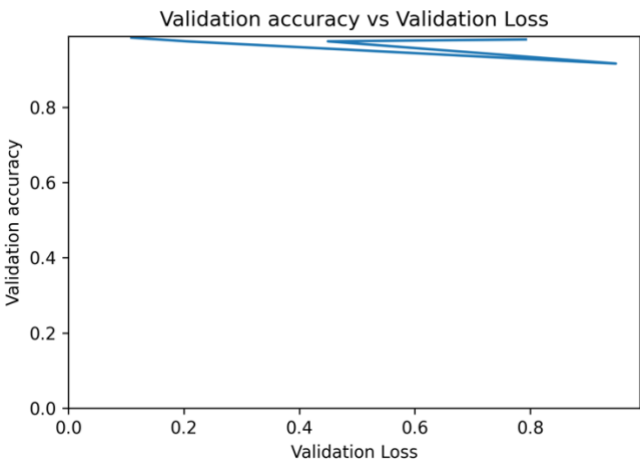
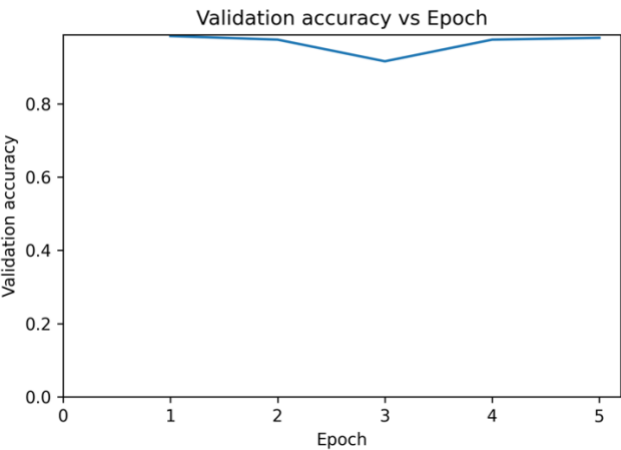
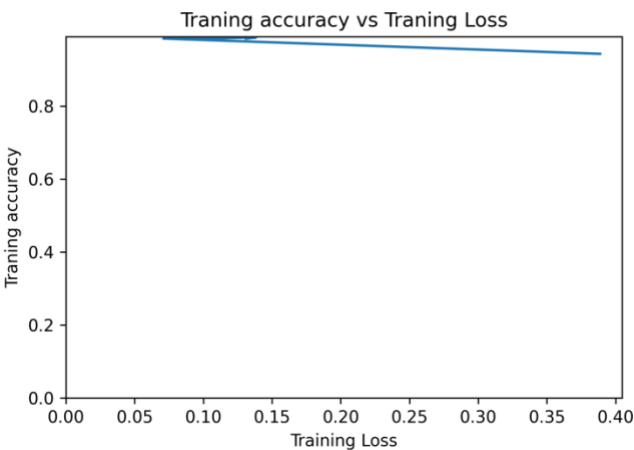
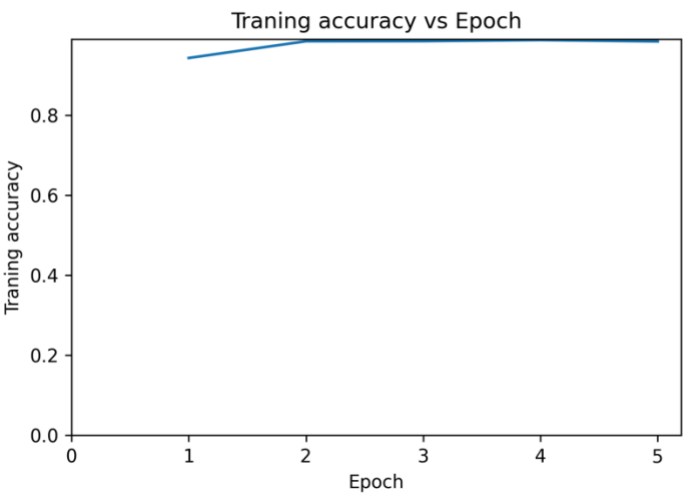
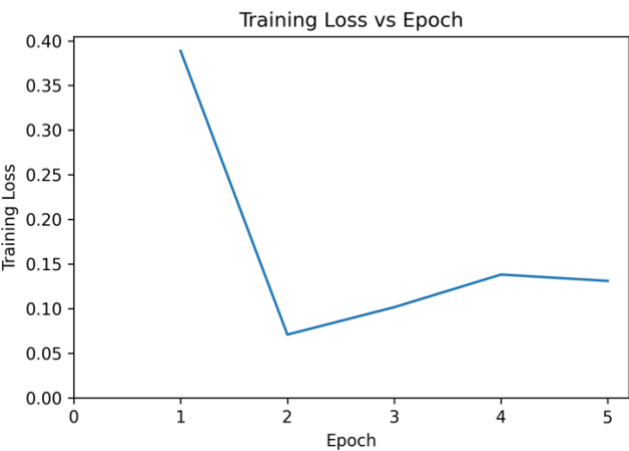


15 Epochs



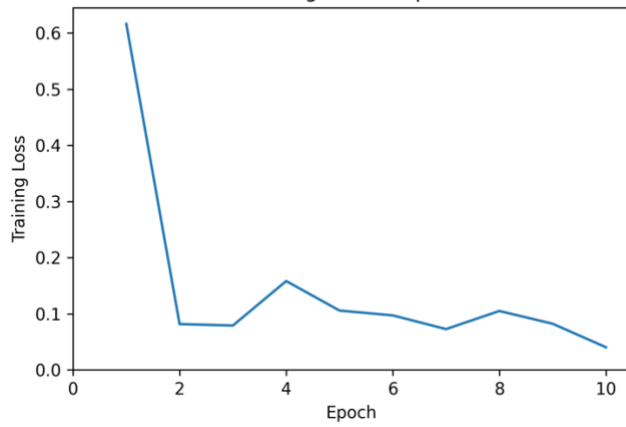
Graphs

5 Epochs

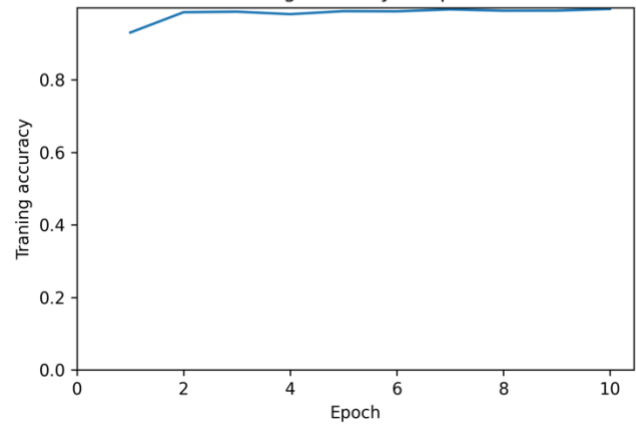


10 Epochs

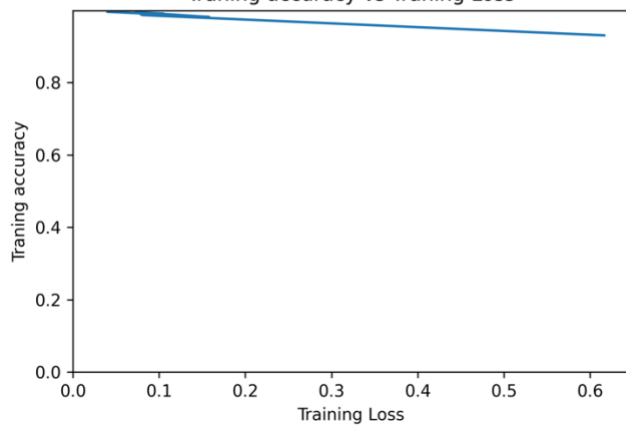
Training Loss vs Epoch



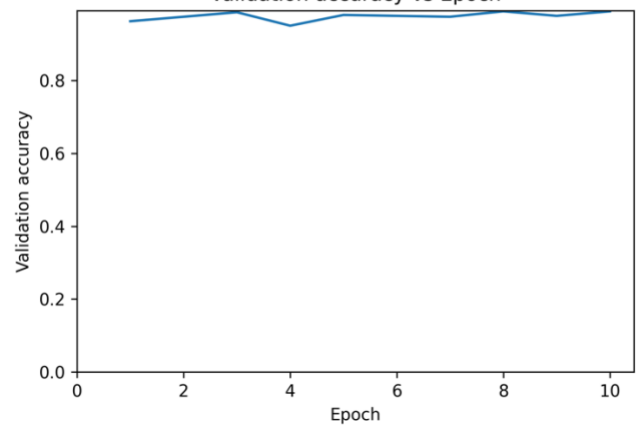
Traning accuracy vs Epoch



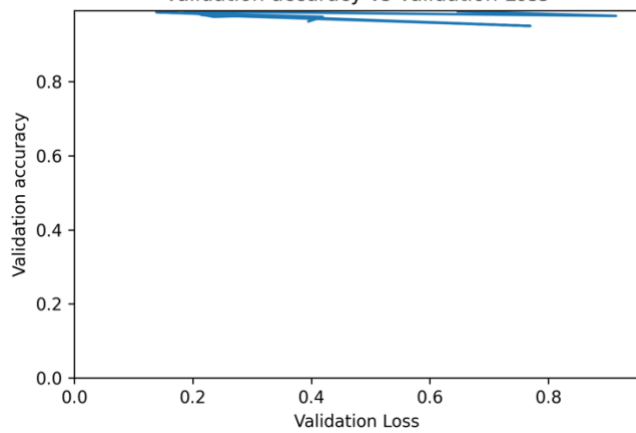
Traning accuracy vs Traning Loss



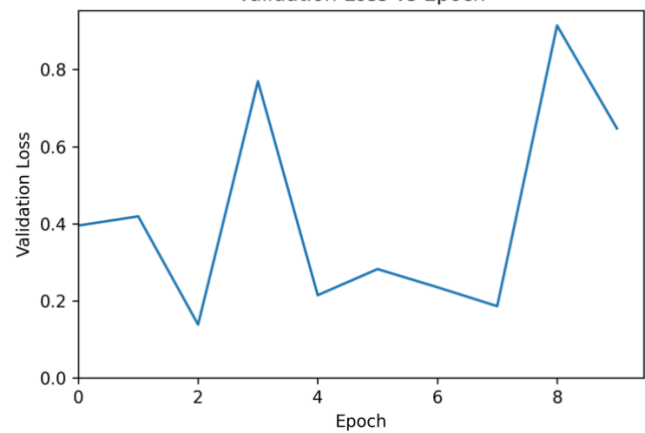
Validation accuracy vs Epoch



Validation accuracy vs Validation Loss



Validation Loss vs Epoch



15 Epochs

