ResNet50

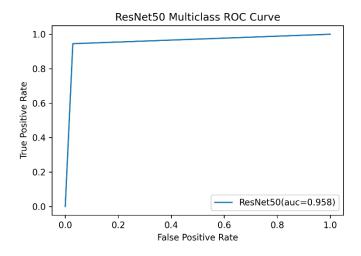
		5 Epochs	10 Epochs	15 Epochs				
Training Accuracy		93.47%	96.79%	97.39%				
Testing Accuracy		92.56%	96.77%	96.53%				
Macro Avg.	Precision	93.51%	97.35%	96.50%				
	Recall	94.82%	97.44%	96.56%				
	F1 Score	94.30%	97.34%	96.50%				
BFlops		23856378						
Inference Time		0.250 Second	0.050 Second	0.046 Second				
Size of Model		95.1MB						

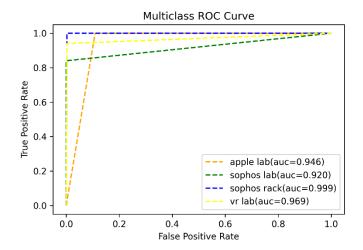
Classification Report & Confusion Matrix

5	10 Epochs			15 Epochs									
For Training preci	sion recall	f1-score	support	For Training	precision	recall	f1-score	support	For Training	precision	recall	f1-score	support
1 2	1.00 0.77 0.88 1.00 0.99 1.00 0.98 0.98	0.93 0.99	1103 1738 426 839	0 1 2 3	1.00 0.94 1.00 0.98	0.88 1.00 1.00 1.00	0.93 0.97 1.00 0.99	972 1876 433 825	0 1 2 3	1.00 0.97 1.00 0.95	0.93 0.99 1.00 0.99	0.96 0.98 1.00 0.97	920 1948 433 805
weighted avg	0.96 0.94 0.94 0.93		4106 4106 4106	accuracy macro avg weighted avg	0.98 0.97	0.97 0.97	0.97 0.97 0.97	4106 4106 4106	accuracy macro avg weighted avg	0.98 0.97	0.97 0.97	0.97 0.98 0.97	4106 4106 4106
[0 1736 2 [0 0 426	15] 0] 0] 23]]			[[852 112 [1 1868 [0 2 [0 1	0 8] 0 7] 431 0] 1 823]]				[[853 51	0 16] 0 28] 432 0] 0 794]]			
For Testing preci	sion recall	f1-score	support	For Testing	precision	recall	f1-score	support	For Testing	precision	recall	f1-score	support
1 2	1.00 0.84 0.84 1.00 1.00 0.97 0.94 0.98	0.91 0.99	174 142 39 48	0 1 2 3	0.99 0.94 1.00 0.96	0.94 0.99 0.97 1.00	0.96 0.96 0.99 0.98	155 161 39 48	0 1 2 3	0.99 0.95 1.00 0.92	0.95 0.98 0.97 0.96	0.97 0.96 0.99 0.94	152 164 39 48
weighted avg	0.95 0.95 0.94 0.93		403 403 403	accuracy macro avg weighted avg	0.97 0.97	0.97 0.97	0.97 0.97 0.97	403 403 403	accuracy macro avg weighted avg	0.96 0.97	0.97 0.97	0.97 0.96 0.97	403 403 403
[[146 25 0 3] [0 142 0 0] [0 1 38 0] [0 1 0 47]]				[[145 9 0 [1 159 0 [0 1 38 [0 0 0	1] 0]				[[145 6 0 [1 160 0 [0 1 38 [0 2 0	3]			

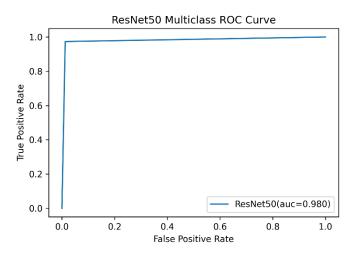
ROC Curve

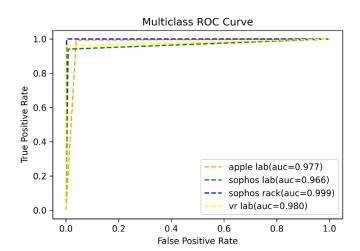
5 Epochs



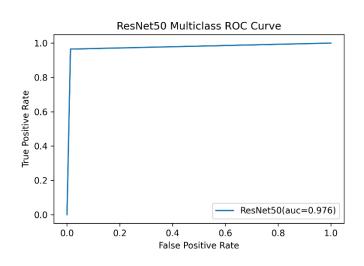


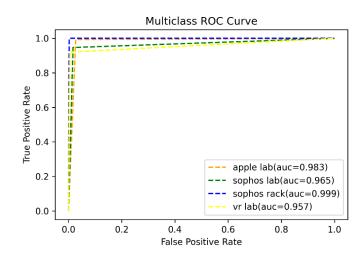
10 Epochs





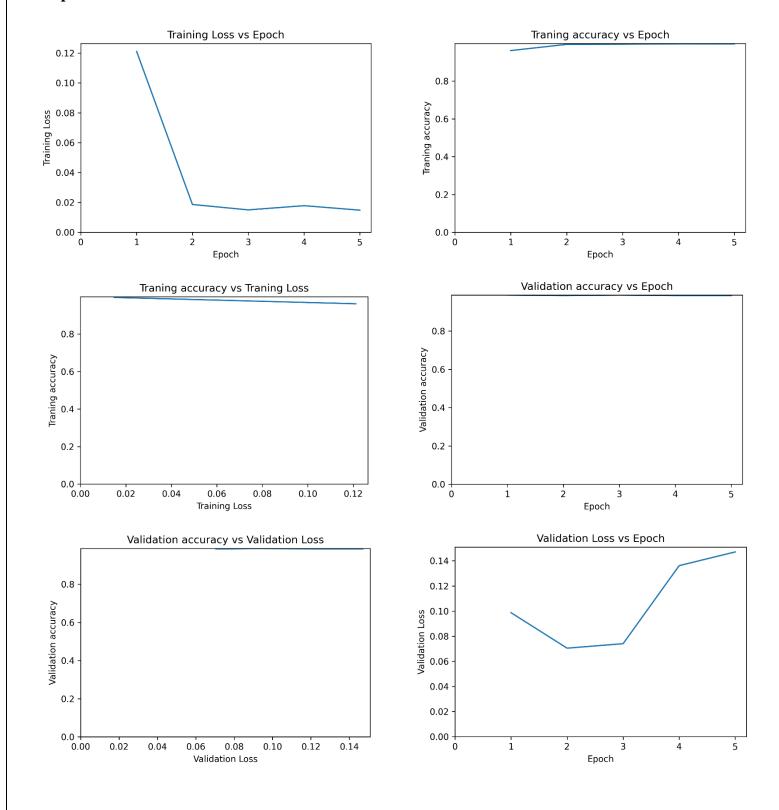
15 Epochs



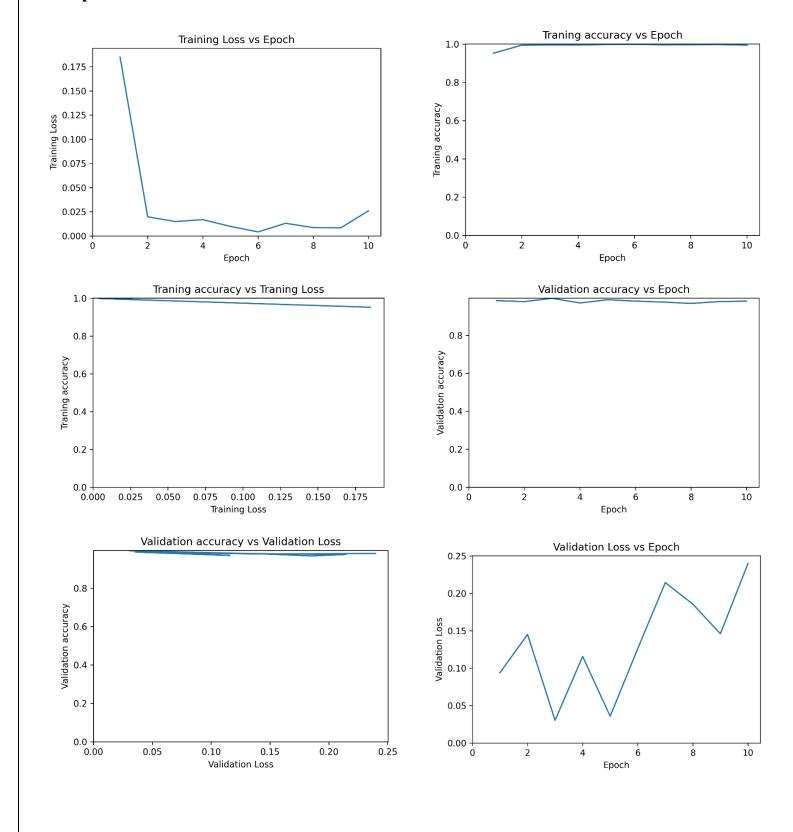


Graphs

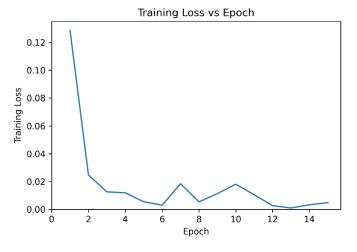
5 Epochs

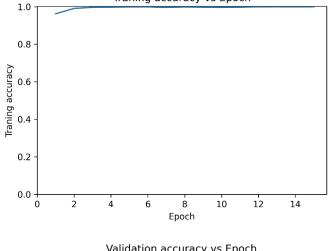


10 Epochs

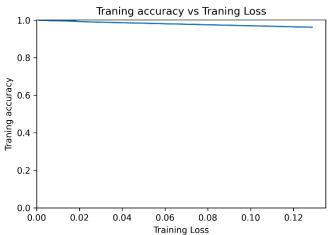


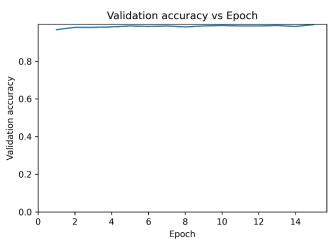
15 Epochs

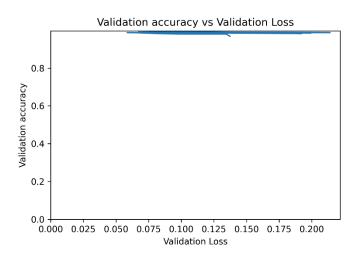


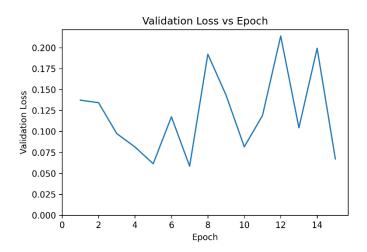


Traning accuracy vs Epoch



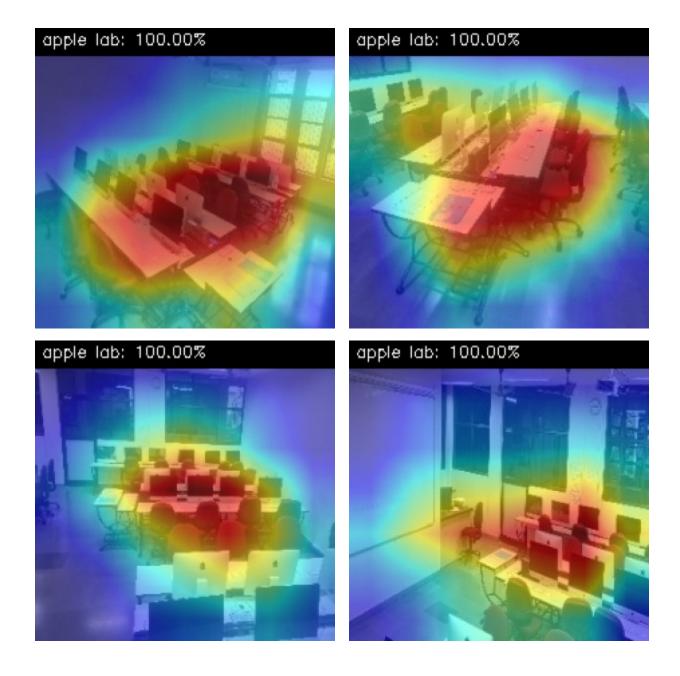




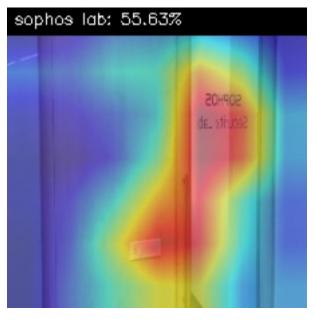


Gradient Class Activation Maps (Grade-CAM) Heatmaps (10 Epochs)

Apple lab

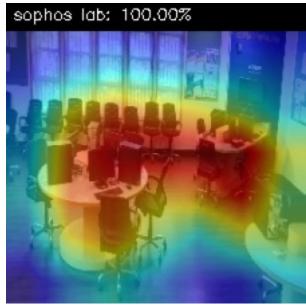


Sophos lab

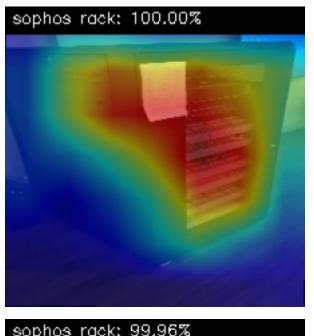


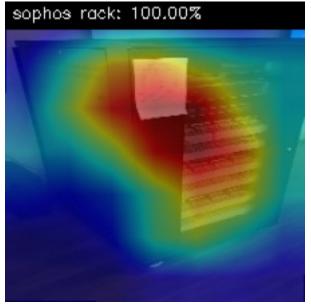


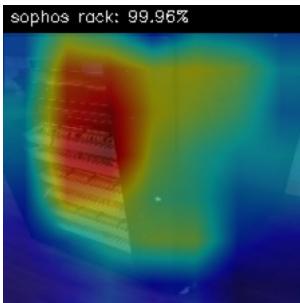


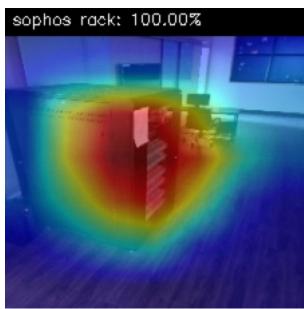


Sophos rack









VR lab

