

Optimizer: SGD		PyTorch			Tensorflow		
Loss: Categorical Cross Entropy		Train	Val	Test	Train	Val	Test
ResNet18	Fine-tune	96.60	93.94	92.31			
	Multi-layer train	93.57	88.74	88.89			
	Feature extraction	78.88	79.22	74.03			
ResNet50	Fine-tune	96.97	95.67	89.74	46.97	45.89	45.30
	Feature extraction	78.52	77.49	74.35	90.78	37.23	36.75
InceptionV3	Fine-tune				79.61	72.29	67.52
	Feature extraction				77.79	59.74	54.70
InceptionResnetV2	Fine-tune				94.30	90.48	85.47
	Feature extraction				75.97	66.67	69.23
From scratch	4 Conv				36.77	37.23	36.75
	4 Conv+2 Dense				36.77	37.23	36.75
	4 Conv, Adam				36.77	37.23	36.75

Framework: PyTorch		SGD			Adam		
Loss: Categorical Cross Entropy		Train	Val	Test	Train	Val	Test
ResNet18	Fine-tune	96.60	93.94	92.31	91.50	93.07	86.32
	Feature extraction	78.88	79.22	74.03	77.91	76.62	78.63

Framework: PyTorch		Categorical Cross Entropy			SVM (Multi Margin Loss)		
Optimizer: SGD		Train	Val	Test	Train	Val	Test
ResNet18	Fine-tune	96.60	93.94	92.31	92.72	89.61	86.32
	Feature extraction	93.57	88.74	88.89	77.55	77.06	70.94