id	pre-trained model	batch_size	transforms	model	optimizer	lr	clr	m	epochs	pre acc	fine tuning (warm up - unfreezing)		scheduler	Valid acc	status		
v1	resnet152	32	regular 3	nn.Sequential()	Adam	0.001	---	---	30	---	---	---	---	95.35%			
v2	vgg16	32	regular 3	nn.Sequential()	SGD	0.001	---	---	30	---	---	---	---	92.54%			
v3	vgg16	32	regular 3	nn.Sequential()	Adam	0.001	---	---	30	---	---	---	---	91.68%			
v4	vgg16	64	regular 3	nn.Sequential()	Adam	0.001	---	---	30	---	---	---	---	88.26%			
v5	resnet152	32	regular 3	nn.Sequential()	Adam	0.001	---	---	50	---	---	---	---	95.23%			
v6	densenet201	32	regular 3	nn.Sequential()	Adam	0.001	---	---	30	---	---	---	---	95.96%			
v7	densenet121	32	regular 3	nn.Sequential()	Adam	0.001	---	---	30	---	---	---	---	95.60%	PASSED		
v8	densenet201	32	RandomVerticalFlip ColorJitter(.3, .3, .3)	nn.Linear()	Adam	0.001	---	---	30	---	---	---	---	97.18%	PASSED		
v9	resnet50	32	regular 5	nn.Linear()	Adam	0.01	---	---	30	---	---	---	---	92.05%			
v10	densenet121	64	regular 5	nn.Linear()	Adam	0.01	---	---	20	---	---	---	---	94.00%	PASSED		
v11	densenet121	32	regular 5	nn.Linear()	Adam	0.01	---	---	20	---	---	---	---	92.42%			
v12	densenet121	64	regular 5	nn.Linear()	Adam	0.001	---	---	20	---	---	---	---	96.08%	PASSED		
v13	densenet201	64	regular 5	nn.Linear()	Adam	0.001	---	---	40	---	---	---	---	97.06%			
v14	densenet201	16	regular 5	nn.Linear()	Adam	0.001	---	---	10	96.33%	lr 0.00001	epochs 10	---	98.77%	PASSED		
v15	densenet201	16	regular 5	nn.Sequential(p=0.2)	Adam	0.001	---	---	10	93.64%	lr 0.00001	epochs 10	---	98.53%		not yet uploaded	test again without workers
v16	densenet201	16	regular 5	nn.Sequential(p=0.5)	Adam	0.001	---	---	10	92.17%	lr 0.00001	epochs 10	---	97.55%			test again without workers
v17	resnet152	16	regular 5	nn.Linear()	Adam	0.001	---	---	10	92.90%	lr 0.00001	epochs 10	---	98.04%			
v18	resnet152	16	regular 5	nn.Linear()	SGD	0.001	---	0.9	10	92.42%	lr 0.00001	epochs 10	---	95.11%			
v19	**resnet152**	16	regular 5	nn.Linear()	Adam	0.001	---	---	15	94.13%	lr 0.00001	epochs 15	---	**98.65%**		not yet uploaded	
v20	densenet201	16	regular 5	nn.Linear()	Adam	0.001	---	---	15	96.45%	lr 0.00001	epochs 15	---	98.90%	PASSED		
v21	densenet201	16	regular 5	nn.Linear()	Adam	0.01	---	---	15	92.17%	lr 0.00001	epochs 15	---	97.68%			
v22	densenet201	16	regular 5	nn.Linear()	Adam	0.001	---	---	10	95.23%	lr 0.00001	epochs 20	---	98.90%		test again	
v23	inceptionv3	16	regular 5	nn.Linear()	Adam	0.001	---	---	15	88.99%	lr 0.00001	epochs 15	---	97.67%		repeat using 0.5	
v24	inceptionv3	16	regular 5	nn.Sequential(p=0.2)	Adam	0.001	---	---	15	81.54%	lr 0.00001	epochs 15	---	96.33%			
v25	inceptionv3	16	regular 5	nn.Linear()	Adam	0.001	---	---	15		lr 0.00001	epochs 30	---				
v26	inceptionv4	16	regular 5	nn.Linear()	Adam	0.001	---	---	15	83.49%	lr 0.00001	epochs 15	---	94.25%			
v27	inceptionv4	16	regular 5	nn.Linear()	Adam	0.01	---	---	15	xxx	lr 0.0001	epochs 15	---	xxx			
v28	**inceptionv4**	16	regular 5	nn.Linear()	Adam	0.0005	---	---	15	81.66%	lr 0.0001	epochs 15	---	**97.43%**			
v29	inceptionv4	16	regular 5	nn.Linear()	Adam	0.0001	---	---	30	79.46%	lr 0.00001	epochs 30	---	97.19%		6.266666667	
v30							---				lr 0.0001	epochs 15	---	94.62%		3 horas	
v31	inceptionv4	16	regular 5	nn.Linear()	SGD	0.01	---	0.9	15	83.74%	lr 0.00005	epochs 15	---				
v32							---				lr 0.00001	epochs 30	---				
v33	inceptionresnetv2	16	regular 5	nn.Linear()	Adam	0.001	---	---	5	81.17%	lr 0.00001	epochs 5	---	---			
v34	inceptionresnetv2	16	regular 5	nn.Linear()	Adam	0.01	---	---	5	76.52%	lr 0.0001	epochs 5	---	---			
v35	inceptionresnetv2	16	regular 5	nn.Linear()	SGD	0.001	---	0.9	5	xxx	lr 0.00001	epochs 5	---	---			
v36	inceptionresnetv2	16	regular 5	nn.Linear()	SGD	0.01	---	0.9	5	80.68%	lr 0.0001	epochs 5	---	93.88%			
v37	**inceptionresnetv2**	16	regular 5	nn.Linear()	SGD	0.01	---	0.9	15	86.43%	lr 0.0001	epochs 15	---	**96.21%**			
v37	inceptionresnetv2	16	regular 5	nn.Sequential(p=0.2)	SGD	0.01	---	0.9	15	83.99%	lr 0.0001	epochs 15	---	---			
v38	inceptionresnetv2	16	regular 5	nn.Linear()	Adam	0.001	---	---	15		lr 0.00001	epochs 15	---				
v39	**densenet201**	16	**ColorJitter (brightness=0.4, contrast=0.4, saturation=0.4, hue=0.1)**	nn.Linear()	Adam	0.001	---	---	30	96.33%	lr 0.00001/ lr 0.000005	epochs 30 / epochs 20	---	**99.51%**	PASSED	5.55	Model didn't improve after 20 more epochs
v40	densenet201	16	regular 5	nn.Linear()	SGD	0.01	---	0.9	15	93.64%	lr 0.0001	epochs 15	---	98.04%			
v41	densenet201	16	regular 5	nn.Linear()	SGD	0.02	---	0.9	10	93.76%	lr 0.0005	epochs 15	---	98.28%			

id	pre-trained model	batch_size	transforms	model	optimizer	lr	clr	m	epochs	pre acc	fine tuning (warm up - unfreezing)		scheduler	Valid acc	status		
v42	inceptionv3	16	regular 5	nn.Linear()	Adam	0.001	---	---	10	86.79%	lr 0.00001	10	---	91.44%				
v43	**inceptionv3**	16	regular 5	nn.Linear()	Adam	0.001	---	---	30	89.73%	lr 0.00001/ lr 0.000001	epochs 30 / epochs 10	---	**98.65%**		4.833333333	Model didn't improve after 10 more epochs	
v44	densenet121	16	regular 5	nn.Linear()	Adam	0.001	---	---	20	94.62%	lr 0.00001/ lr 0.000005	epochs 30 / epochs 10	---	98.28%/ 98.53	not yet uploaded			
v45	densenet121	18	regular 5	nn.Linear()	Adam	0.001	default... base_lr=1e-3 max lr=6e-3	---	20	76.41%/ 94.25%	lr 0.00001	epochs 30	---	95.48%/ 97.79%		unfreezing layer clr base_lr=0.001, max_lr=0.006		
v46	densenet121	18	regular 5	nn.Linear()	Adam	0.001	default... base_lr=1e-3 max lr=6e-3	---	20	76.41%/ 94.25%	lr 0.00001	epochs 30	---	97.43%/ 97.68/ ...		unfreezing layer clr base_lr=0.000005, max_lr=0.00005		
v47	densenet121	18	regular 5	nn.Linear()	Adam	0.001	... base_lr=1e-3 max lr=6e-3	---	20	78.85%/ 94.49%	lr 0.00001	epochs 30	---	95.97%/ 97.92%/		unfreezing layer clr base_lr=0.001, max_lr=0.006		
v48	**densenet121**	18	regular 5	nn.Linear()	Adam	0.001	... base_lr=1e-3 max_lr=6e-3 **step_size=10*x** mode='triangular'	---	20	78.85%/ 94.49%	lr 0.00001/ lr 0.000001	epochs 30/ epochs 10	---	95.60%/ 98.78% 98.90% **99.02%/** 98.90%	**PASSED**	epoch 1 result epoch 30 result epoch +10 unfreezing layer clr base_lr=0.000005, max_lr=0.00005 epoch +10 unfreezing layer clr base_lr=0.000005, max_lr=0.00005 epoch +10 unfreezing layer clr base_lr=0.000001, max_lr=0.00001	95.59 train accuracy	
v49	densenet201	18	regular 5	nn.Linear()	Adam	0.001	... base_lr=1e-3 max_lr=6e-3 **step_size=10*x** mode='triangular'	---	20	82.27%/ 95.96%	lr 0.00001/ lr 0.000001	epochs 30/ epochs 10	---	96.70%/ 99.02%/ **99.38/** 99.27%	**PASSED**	epoch 1 result epoch 30 unfreezing layer clr base_lr=0.000005, max_lr=0.00005 epoch +10 unfreezing layer clr base_lr=0.0000005, max_lr=0.000005 epoch +10 unfreezing layer clr base_lr=0.0000001, max_lr=0.000001	Epoch 1/10 ----------- train Loss: 0.0935 Acc: 0.9730 valid Loss: 0.1330 Acc: 0.9939	