Modelli di Keras

MobileN	let			
Guess T1	2676			
Guess T5	3480	Model Size	16 MB	
Total	3923			
TOP 1	68.21%	Expected TOP 1	70.40%	-2.19%
TOP 5	88.71%	Expected TOP 5	89.50%	-0.79%

Inceptio	n V3			
Guess T1	2983			
Guess T5	3643	Model Size	92 MB	
Total	3923			
TOP 1	76.04%	Expected TOP 1	77.90%	-1.86%
TOP 5	92.86%	Expected TOP 5	93.70%	-0.84%

ResNet	152 V2			
Guess T1	2699			
Guess T5	3496	Model Size	232 MB	
Total	3923			
TOP 1	68.80%	Expected TOP 1	78.00%	-9.20%
TOP 5	89.12%	Expected TOP 5	94.21%	-5.09%

ResNet!	50 V2			
Guess T1	2567			
Guess T5	3422	Model Size	98 MB	
Total	3923			
TOP 1	65.43%	Expected TOP 1	76.01%	-10.58%
TOP 5	87.23%	Expected TOP 5	92.82%	-5.59%

Modelli di PyTorch

MobileNe	etV2			
Guess T1	2657			
Guess T5	3487	Model Size	14 MB	
Total	3923			
TOP 1	67.73%	Expected TOP 1	71.88%	-4.15%
TOP 5	88.89%	Expected TOP 5	90.27%	-1.38%

Inception	V3			
Guess T1	2978			
Guess T5	3646	Model Size	104 MB	
Total	3923			
TOP 1	75.91%	Expected TOP 1	77.29%	-1.38%
TOP 5	92.94%	Expected TOP 5	93.45%	-0.51%

ResNet1	52			
Guess T1	2950			
Guess T5	3656	Model Size	231 MB	
Total	3923			
TOP 1	75.20%	Expected TOP 1	78.31%	-3.11%
TOP 5	93.19%	Expected TOP 5	94.05%	-0.85%

AlexNet				
Guess T1	2073			
Guess T5	3024	Model Size	234 MB	
Total	3923			
TOP 1	52.84%	Expected TOP 1	56.52%	-3.68%
TOP 5	77.08%	Expected TOP 5	79.07%	-1.98%

Keras VS PyTorch

Normal *	GrayScale
0.48%	
-0.18%	

Normal	GrayScale
0.13%	
-0.08%	

Normal *	GrayScale
-6.40%	
-4.08%	

ResNet!	50			
Guess T1	2661			
Guess T5	3466	Model Size	98 MB	
Total	3923			
TOP 1	67.83%	Expected TOP 1	74.90%	-7.07%
TOP 5	88.35%	Expected TOP 5	91.20%	-2.85%

VGG16				
Guess T1	2502			
Guess T5	3369	Model Size	528 MB	
Total	3923			
TOP 1	63.78%	Expected TOP 1	71.30%	-7.52%
TOP 5	85.88%	Expected TOP 5	90.01%	-4.13%

VGG19				
Guess T1	2516			
Guess T5	3365	Model Size	549 MB	
Total	3923			
TOP 1	64.13%	Expected TOP 1	71.30%	-7.17%
TOP 5	85.78%	Expected TOP 5	90.00%	-4.22%

Image Classification

ResNet50)			
Guess T1	2853			
Guess T5	3608	Model Size	98 MB	
Total	3923			
TOP 1	72.72%	Expected TOP 1	76.13%	-3.41%
TOP 5	91.97%	Expected TOP 5	92.86%	-0.89%

VGG16				
Guess T1	2663			
Guess T5	3500	Model Size	528 MB	
Total	3923			
TOP 1	67.88%	Expected TOP 1	71.59%	-3.71%
TOP 5	89.22%	Expected TOP 5	90.38%	-1.16%

VGG19				
Guess T1	2723			
Guess T5	3502	Model Size	549 MB	
Total	3923			
TOP 1	69.41%	Expected TOP 1	72.38%	-2.96%
TOP 5	89.27%	Expected TOP 5	90.88%	-1.61%

Squeeze	Net 1.1			
Guess T1	2040			
Guess T5	3026	Model Size	5 MB	
Total	3923			
TOP 1	52.00%	Expected TOP 1	58.18%	-6.18%
TOP 5	77.13%	Expected TOP 5	80.62%	-3.49%

VGG19 E	BN			
Guess T1	2773			
Guess T5	3581	Model Size	549 MB	
Total	3923			
TOP 1	70.69%	Expected TOP 1	74.22%	-3.53%
TOP 5	91.28%	Expected TOP 5	91.84%	-0.56%

Normal	GrayScale
-4.89%	
-3.62%	

Normal	GrayScale
-4.10%	
-3.34%	

Normal	GrayScale
-5.28%	
-3.49%	

MX Res	net152		
Guess T1	2844	Classification T	< 6s
Guess T5	3596	Model Size	215 MB
Total	3923	Resources	Medium
TOP 1	72.50%	Expected TOP 1	77.42%
TOP 5	91.66%	Expected TOP 5	94.21%

GrayScale			
Guess T1		2610	-234
Guess T5		3451	-145
Total		3923	0
TOP 1		66.53%	-5.96%
TOP 5		87.97%	-3.70%

VCC19	BN		
Guess T1	30	Classification T	~ 10s
Guess T5	106	Model Size	507 MB
Total	3923	Resources	High
TOP 1	0.76%	Expected TOP 1	73.83%
TOP 5	2.70%	Expected TOP 5	91.79%

Tiny YOLO]
Correct Guesses	12964
Total Images	17125
Detection Time	~ 1s
Model Size	60MB
Precision	75.70%

YOLO V2	
Correct Guesses	6119
Total Images	6432
Detection Time	~ 69
Model Size	200MB
Precision	95.13%