## 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%

SqueezeNet 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%	

TOP 1 AVG	TOP 5 AVG	
-10.61%		-8.81%

MobileNet

		ImageN	et Mini	
	Normal	Vs	GrayScale	
Guess T1	2676		2284	Guess T1
Guess T5	3480		3220	Guess T5
Total	3923		3923	Total
TOP 1	68.21%	-9.99%	58.22%	TOP 1
TOP 5	88.71%	-6.63%	82.08%	TOP 5

Inception V3

ImageNet Mini					
Normal		Vs	GrayScale		
Guess T1	2983		2702	Guess T1	
Guess T5	3643		3486	Guess T5	
Total	3923		3923	Total	
TOP 1	76.04%	-7.16%	68.88%	TOP 1	
TOP 5	92.86%	-4.00%	88.86%	TOP 5	

ResNet50 ImageNet Mini Vs GrayScale Normal 2116 Guess T1 2661 Guess T1 3089 Guess T5 3466 Guess T5 3923 3923 **Total** Total 53.94% TOP 1 78.74% TOP 5 67.83% TOP 1 -13.89% 88.35% TOP 5 -9.61%

ResNet152 V2
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1001101202 12					
ImageNet Mini					
Normal		Vs	GrayScale		
Guess T1	2699		2369	Guess T1	
Guess T5	3496		3264	Guess T5	
Total	3923		3923	Total	
TOP 1	68.80%	-8.41%	60.39%	TOP 1	
TOP 5	89.12%	-5.91%	83.20%	TOP 5	

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		ImageN	et Mini	
	Normal	Vs	GrayScale	
Guess T1	2516		1982	Guess T1
Guess T5	3365		2934	Guess T5
Total	3923		3923	Total
TOP 1	64.13%	-13.61%	50.52%	TOP 1
TOP 5	85.78%	-10.99%	74.79%	TOP 5