### 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	2809			
Guess T5	3524	Model Size	14 MB	
Total	3923			
TOP 1	71.60%	Expected TOP 1	71.88%	-0.27%
TOP 5	89.83%	Expected TOP 5	90.27%	-0.44%

Inception	V3			
Guess T1	3015			
Guess T5	3651	Model Size	104 MB	
Total	3923			
TOP 1	76.85%	Expected TOP 1	77.29%	-0.44%
TOP 5	93.07%	Expected TOP 5	93.45%	-0.38%

ResNet1	52			
Guess T1	3001			
Guess T5	3678	Model Size	231 MB	
Total	3923			
TOP 1	76.50%	Expected TOP 1	78.31%	-1.81%
TOP 5	93.75%	Expected TOP 5	94.05%	-0.29%

AlexNet				
Guess T1	2209			
Guess T5	3099	Model Size	234 MB	
Total	3923			
TOP 1	56.31%	Expected TOP 1	56.52%	-0.21%
TOP 5	79.00%	Expected TOP 5	79.07%	-0.07%

# Keras VS PyTorch

Diff *	Winner
-3.39%	PyTorch
-1.12%	PyTorch

Diff	Winner
-0.82%	PyTorch
-0.20%	PyTorch

Diff *	Winner
-7.70%	PyTorch
-4.64%	PyTorch

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%

#### ImageNet

ResNet50	O			
Guess T1	2970			
Guess T5	3650	Model Size	98 MB	
Total	3923			
TOP 1	75.71%	Expected TOP 1	76.13%	-0.42%
TOP 5	93.04%	Expected TOP 5	92.86%	0.18%

VGG16				
Guess T1	2762			
Guess T5	3547	Model Size	528 MB	
Total	3923			
TOP 1	70.41%	Expected TOP 1	71.59%	-1.19%
TOP 5	90.42%	Expected TOP 5	90.38%	0.03%

VGG19				
Guess T1	2802			
Guess T5	3553	Model Size	549 MB	
Total	3923			
TOP 1	71.42%	Expected TOP 1	72.38%	-0.95%
TOP 5	90.57%	Expected TOP 5	90.88%	-0.31%

Squeeze	Net 1.1			
Guess T1	2286			
Guess T5	3173	Model Size	5 MB	
Total	3923			
TOP 1	58.27%	Expected TOP 1	58.18%	0.09%
TOP 5	80.88%	Expected TOP 5	80.62%	0.26%

VGG19 E	BN			
Guess T1	2877			
Guess T5	3599	Model Size	549 MB	
Total	3923			
TOP 1	73.34%	Expected TOP 1	74.22%	-0.88%
TOP 5	91.74%	Expected TOP 5	91.84%	-0.10%

Diff	Winner
-7.88%	PyTorch
-4.69%	PyTorch

Diff	Winner
-6.63%	PyTorch
-4.54%	PyTorch

Diff	Winner
-7.29%	PyTorch
-4.79%	PyTorch

# Modelli di Keras

MobileN	let			
Guess T1	696			
Guess T5	877	Model Size	16 MB	
Total	1000			
TOP 1	69.60%	Expected TOP 1	70.40%	-0.80%
TOP 5	87.70%	Expected TOP 5	89.50%	-1.80%

Inception V3				
Guess T1	754			
Guess T5	926	Model Size	92 MB	
Total	1000			
TOP 1	75.40%	Expected TOP 1	77.90%	-2.50%
TOP 5	92.60%	Expected TOP 5	93.70%	-1.10%

ResNet:	152 V2			
Guess T1	690			
Guess T5	885	Model Size	232 MB	
Total	1000			
TOP 1	69.00%	Expected TOP 1	78.00%	-9.00%
TOP 5	88.50%	Expected TOP 5	94.21%	-5.71%

ResNet!	50 V2			
Guess T1	651			
Guess T5	866	Model Size	98 MB	
Total	1000			
TOP 1	65.10%	Expected TOP 1	76.01%	-10.91%
TOP 5	86.60%	Expected TOP 5	92.82%	-6.22%

# Modelli di PyTorch

MobileN	letV2			
Guess T1	711			
Guess T5	909	Model Size	14 MB	
Total	1000			
TOP 1	71.10%	Expected TOP 1	71.88%	-0.78%
TOP 5	90.90%	Expected TOP 5	90.27%	0.63%

Inceptio	n V3			
Guess T1	781			
Guess T5	939	Model Size	104 MB	
Total	1000			
TOP 1	78.10%	Expected TOP 1	77.29%	0.81%
TOP 5	93.90%	Expected TOP 5	93.45%	0.45%

ResNet	152			
Guess T1	774			
Guess T5	947	Model Size	231 MB	
Total	1000			
TOP 1	77.40%	Expected TOP 1	78.31%	-0.91%
TOP 5	94.70%	Expected TOP 5	94.05%	0.65%

AlexNet	•			
Guess T1	577			
Guess T5	802	Model Size	234 MB	
Total	1000			
TOP 1	57.70%	Expected TOP 1	56.52%	1.18%
TOP 5	80.20%	Expected TOP 5	79.07%	1.13%

# Keras VS PyTorch

Diff *	Winner
-1.50%	PyTorch
-3.20%	PyTorch

Diff	Winner
-2.70%	PyTorch
-1.30%	PyTorch

Diff *	Winner
-8.40%	PyTorch
-6.20%	PyTorch

#### A-Line

ResNet!	50			
Guess T1	694			
Guess T5	897	Model Size	98 MB	
Total	1000			
TOP 1	69.40%	Expected TOP 1	74.90%	-5.50%
TOP 5	89.70%	Expected TOP 5	91.20%	-1.50%

VGG16				
Guess T1	631			
Guess T5	856	Model Size	528 MB	
Total	1000			
TOP 1	63.10%	Expected TOP 1	71.30%	-8.20%
TOP 5	85.60%	Expected TOP 5	90.01%	-4.41%

VGG19				
Guess T1	649			
Guess T5	862	Model Size	549 MB	
Total	1000			
TOP 1	64.90%	Expected TOP 1	71.30%	-6.40%
TOP 5	86.20%	Expected TOP 5	90.00%	-3.80%

ResNet	50			
Guess T1	763			
Guess T5	934	Model Size	98 MB	
Total	1000			
TOP 1	76.30%	Expected TOP 1	76.13%	0.17%
TOP 5	93.40%	Expected TOP 5	92.86%	0.54%

VGG16				
Guess T1	722			
Guess T5	910	Model Size	528 MB	
Total	1000			
TOP 1	72.20%	Expected TOP 1	71.59%	0.61%
TOP 5	91.00%	Expected TOP 5	90.38%	0.62%

VGG19				
Guess T1	730			
Guess T5	908	Model Size	549 MB	
Total	1000			
TOP 1	73.00%	Expected TOP 1	72.38%	0.62%
TOP 5	90.80%	Expected TOP 5	90.88%	-0.08%

Squeez	eNet 1.1			
Guess T1	612			
Guess T5	817	Model Size	5 MB	
Total	1000			
TOP 1	61.20%	Expected TOP 1	58.18%	3.02%
TOP 5	81.70%	Expected TOP 5	80.62%	1.08%

VGG19	BN			
Guess T1	746			
Guess T5	927	Model Size	549 MB	
Total	1000			
TOP 1	74.60%	Expected TOP 1	74.22%	0.38%
TOP 5	92.70%	Expected TOP 5	91.84%	0.86%

Diff	Winner
-6.90%	PyTorch
-3.70%	PyTorch

Diff	Winner
-9.10%	PyTorch
-5.40%	PyTorch

Diff	Winner
-8.10%	PyTorch
-4.60%	PyTorch

ImageNetMini				
TOP 1 AVG	TOP 5 AVG			
-10.61	.%	-7.43%		

	A-Line	
TOP 1 AVG		TOP 5 AVG
	-12.18%	-8.78%

#### MobileNet

	, .				
ImageNet 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	

A-Line					
1	Normal	Vs	GrayScal	е	
Guess T1	696		586	Guess T1	
Guess T5	877		797	Guess T5	
Total	1000		1000	Total	
TOP 1	69.60%	-11.00%	58.60%	TOP 1	
TOP 5	87.70%	-8.00%	79.70%	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

A-Line					
1	Normal	Vs	GrayScal	е	
Guess T1	754		680	Guess T1	
Guess T5	926		883	Guess T5	
Total	1000		1000	Total	
TOP 1	75.40%	-7.40%	68.00%	TOP 1	
TOP 5	92.60%	-4.30%	88.30%	TOP 5	

### ResNet50

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

A-Line					
1	Normal	Vs	GrayScal	е	
Guess T1	694		532	Guess T1	
Guess T5	897		770	Guess T5	
Total	1000		1000	Total	
TOP 1	69.40%	-16.20%	53.20%	TOP 1	
TOP 5	89.70%	-12.70%	77.00%	TOP 5	

#### ResNet152 V2

LICOLICITO	)				
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	

A-Line					
N	Iormal	Vs	GrayScal	е	
Guess T1	690		589	Guess T1	
Guess T5	885		822	Guess T5	
Total	1000		1000	Total	
TOP 1	69.00%	-10.10%	58.90%	TOP 1	
TOP 5	88.50%	-6.30%	82.20%	TOP 5	

## VGG19

ImageNet 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

A-Line					
1	Normal	Vs	GrayScal	е	
Guess T1	649		487	Guess T1	
Guess T5	862		736	Guess T5	
Total	1000		1000	Total	
TOP 1	64.90%	-16.20%	48.70%	TOP 1	
TOP 5	86.20%	-12.60%	73.60%	TOP 5	

ImageNet Mini					
TOP 1 AVG TOP 5 AVG					
-13.58%	-9.37%				

A-Line	
TOP 1 AVG	TOP 5 AVG
-14.60%	-9.99%

### MobileNetV2

ImageNet Mini					
Normal Vs GrayScale					
Guess T1	2809		2319	Guess T1	
Guess T5	3524		3240	Guess T5	
Total	3923		3923	Total	
TOP 1	71.60%	-12.49%	59.11%	TOP 1	
TOP 5	89.83%	-7.24%	82.59%	TOP 5	

A-Line					
Nor	Normal Vs			Scale	
Guess T1	711		588	Guess T1	
Guess T5	909		828	Guess T5	
Total	1000		1000	Total	
TOP 1	71.10%	-12.30%	58.80%	TOP 1	
TOP 5	90.90%	-8.10%	82.80%	TOP 5	

### Inception V3

ImageNet Mini					
1	Normal		Gray:	Scale	
Guess T1	3015		2757	Guess T1	
Guess T5	3651		3509	Guess T5	
Total	3923		3923	Total	
TOP 1	76.85%	-6.58%	70.28%	TOP 1	
TOP 5	93.07%	-3.62%	89.45%	TOP 5	

A-Line				
Nor	mal	Vs	Gray:	Scale
Guess T1	781		693	Guess T1
Guess T5	939		903	Guess T5
Total	1000		1000	Total
TOP 1	78.10%	-8.80%	69.30%	TOP 1
TOP 5	93.90%	-3.60%	90.30%	TOP 5

### ResNet152

ImageNet Mini					
Normal		Vs	Gray:	Scale	
Guess T1	3001		2682	Guess T1	
Guess T5	3678		3517	Guess T5	
Total	3923		3923	Total	
TOP 1	76.50%	-8.13%	68.37%	TOP 1	
TOP 5	93.75%	-4.10%	89.65%	TOP 5	

A-Line				
Normal		Vs	Gray:	Scale
Guess T1	774		673	Guess T1
Guess T5	947		888	Guess T5
Total	1000		1000	Total
TOP 1	77.40%	-10.10%	67.30%	TOP 1
TOP 5	94.70%	-5.90%	88.80%	TOP 5

### AlexNet

,,	' I				
ImageNet Mini					
1	Normal	Vs	Gray:	Scale	
Guess T1	2209		1383	Guess T1	
Guess T5	3099		2315	Guess T5	
Total	3923		3923	Total	
TOP 1	56.31%	-21.06%	35.25%	TOP 1	
TOP 5	79.00%	-19.98%	59.01%	TOP 5	

A-Line				
Nor	mal	Vs	Gray:	Scale
Guess T1	577		349	Guess T1
Guess T5	802		564	Guess T5
Total	1000		1000	Total
TOP 1	57.70%	-22.80%	34.90%	TOP 1
TOP 5	80.20%	-23.80%	56.40%	TOP 5

## ResNet50

ImageNet Mini					
1	Normal	Vs	Gray	Scale	
Guess T1	2970		2525	Guess T1	
Guess T5	3650		3419	Guess T5	
Total	3923		3923	Total	
TOP 1	75.71%	-11.34%	64.36%	TOP 1	
TOP 5	93.04%	-5.89%	87.15%	TOP 5	

A-Line				
Nor	mal	Vs	Gray:	Scale
Guess T1	763		644	Guess T1
Guess T5	934		863	Guess T5
Total	1000		1000	Total
TOP 1	76.30%	-11.90%	64.40%	TOP 1
TOP 5	93.40%	-7.10%	86.30%	TOP 5

## VGG16

ImagaNat Mini						
ImageNet Mini						
1	Normal	Vs	Gray:	Scale		
Guess T1	2762		2288	Guess T1		
Guess T5	3547		3233	Guess T5		
Total	3923		3923	Total		
TOP 1	70.41%	-12.08%	58.32%	TOP 1		
TOP 5	90.42%	-8.00%	82.41%	TOP 5		

A-Line				
Nor	mal	Vs	Gray	Scale
Guess T1	722		552	Guess T1
Guess T5	910		812	Guess T5
Total	1000		1000	Total
TOP 1	72.20%	-17.00%	55.20%	TOP 1
TOP 5	91.00%	-9.80%	81.20%	TOP 5

### VGG19

ImageNet Mini					
Normal		Vs	GrayScale		
Guess T1	2802		2365	Guess T1	
Guess T5	3553		3263	Guess T5	
Total	3923		3923	Total	
TOP 1	71.42%	-11.14%	60.29%	TOP 1	
TOP 5	90.57%	-7.39%	83.18%	TOP 5	

A-Line				
Nor	mal	Vs	Gray:	Scale
Guess T1	730		564	Guess T1
Guess T5	908		821	Guess T5
Total	1000		1000	Total
TOP 1	73.00%	-16.60%	56.40%	TOP 1
TOP 5	90.80%	-8.70%	82.10%	TOP 5

### SqueezeNet 1.1

	Ima	geNet Mini		
1	Normal	Vs	Gray:	Scale
Guess T1	2809		1630	Guess T1
Guess T5	3524		2620	Guess T5
Total	Total 3923		3923	Total
TOP 1	71.60%	-30.05%	41.55%	TOP 1
TOP 5	89.83%	-23.04%	66.79%	TOP 5

A-Line				
Normal		Vs	Gray:	Scale
Guess T1	612		406	Guess T1
Guess T5	817		658	Guess T5
Total	1000		1000	Total
TOP 1	61.20%	-20.60%	40.60%	TOP 1
TOP 5	81.70%	-15.90%	65.80%	TOP 5

### VGG19 BN

ImageNet Mini				
1	Normal	Vs	Gray:	Scale
Guess T1	2877		2512	Guess T1
Guess T5	3599		3399	Guess T5
Total	otal 3923		3923	Total
TOP 1	73.34%	-9.30%	64.03%	TOP 1
TOP 5	91.74%	-5.10%	86.64%	TOP 5

A-Line				
Normal		Vs	Gray:	Scale
Guess T1	746		633	Guess T1
Guess T5	927		857	Guess T5
Total	1000		1000	Total
TOP 1	74.60%	-11.30%	63.30%	TOP 1
TOP 5	92.70%	-7.00%	85.70%	TOP 5

#### Keras Multifilter

				MobileNet		
Seeds	No Filtoro	69	666	777	911	119
Cuesa T1	No Filters 696	Filtered 603	Filtered 600	Filtered 617	Filtered 611	Filtered 618
Guess T1	877	842	840	837	831	838
Guess T5	1000	1000	1000	1000	1000	1000
Total	69.60%	60.30%	60.00%	61.70%	61.10%	61.80%
TOP 1 TOP 5	87.70%	84.20%	84.00%	83.70%	83.10%	83.80%
	07.7070	-9.30%	<b>-9.60%</b>	-7.90%	-8.50%	-7.80%
Diff TOP 1		-3.50%	-3.70%	-4.00%	-4.60%	-3.90%
Diff TOP 5		-3.30 /0	-3.7070	-4.0070	-4.00 /0	-3.3070
Seeds	No Filters	420	1308	7	23	9 Filtered
Guess T1	696	Filtered 602	Filtered 618	Filtered 607	Filtered 617	Filtered 606
Guess T5	877	830	839	839	824	835
Total	1000	1000	1000	1000	1000	1000
TOP 1	69.60%	60.20%	61.80%	60.70%	61.70%	60.60%
TOP 5	87.70%	83.00%	83.90%	83.90%	82.40%	83.50%
10F 5	07.7070	-9.40%	-7.80%	-8.90%	-7.90%	-9.00%
Diff TOD 1			-1.00/0	-0.0070	-7.5070	-0.0070
		-4.70%	-3.80%	-3.80%	-5.30%	-4.20%
Diff TOP 5		-4.70%		InceptionV3		
Diff TOP 5	No Filters	<b>-4.70%</b>	666	InceptionV3	911	119
Diff TOP 5 Seeds	No Filters	-4.70%	666 Filtered	InceptionV3 777 Filtered		
Diff TOP 5 Seeds Guess T1	754	-4.70%  69 Filtered 708	666 Filtered 701	InceptionV3 777 Filtered 711	911 Filtered	119 Filtered 689
Seeds Guess T1 Guess T5		-4.70% 69 Filtered	666 Filtered	InceptionV3 777 Filtered	911 Filtered 702	119 Filtered
Seeds Guess T1 Guess T5 Total	754 926	-4.70%  69 Filtered 708 899	666 Filtered 701 899	InceptionV3 777 Filtered 711 903	911 Filtered 702 904	119 Filtered 689 908
Seeds  Guess T1  Guess T5  Total  TOP 1	754 926 1000	-4.70%  69 Filtered  708  899  1000	666 Filtered 701 899 1000	InceptionV3 777 Filtered 711 903 1000	911 Filtered 702 904 1000	119 Filtered 689 908 1000
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5	754 926 1000 75.40%	-4.70%  69 Filtered  708  899  1000  70.80%	666 Filtered 701 899 1000 70.10%	777 Filtered 711 903 1000 71.10%	911 Filtered 702 904 1000 70.20%	119 Filtered 689 908 1000 68.90%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	754 926 1000 75.40%	-4.70%  69 Filtered  708  899  1000  70.80%  89.90%	666 Filtered 701 899 1000 70.10% 89.90%	777 Filtered 711 903 1000 71.10% 90.30%	911 Filtered 702 904 1000 70.20% 90.40%	119 Filtered 689 908 1000 68.90% 90.80%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	754 926 1000 75.40%	-4.70%  69 Filtered  708  899  1000  70.80%  89.90%  -4.60%  -2.70%	666 Filtered 701 899 1000 70.10% 89.90% -5.30% -2.70%	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30%	911 Filtered 702 904 1000 70.20% 90.40% -5.20% -2.20%	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	754 926 1000 75.40%	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60%	666 Filtered 701 899 1000 70.10% 89.90% -5.30%	777 Filtered 711 903 1000 71.10% 90.30% -4.30%	911 Filtered  702 904 1000 70.20% 90.40% -5.20%	119 Filtered 689 908 1000 68.90% 90.80% -6.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5	754 926 1000 75.40% 92.60%	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60% -2.70%	666 Filtered 701 899 1000 70.10% 89.90% -5.30% -2.70%	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30%	911 Filtered  702 904 1000 70.20% 90.40% -5.20% -2.20%	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	754 926 1000 75.40% 92.60%	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60% -2.70%	666 Filtered 701 899 1000 70.10% 89.90% -5.30% -2.70%	777 Filtered 771 903 1000 71.10% 90.30% -4.30% -2.30%	911 Filtered  702 904 1000 70.20% 90.40% -5.20% -2.20%  23 Filtered	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1	754 926 1000 75.40% 92.60%	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60% -2.70%  420 Filtered  712	666 Filtered 701 899 1000 70.10% 89.90% -5.30% -2.70%  1308 Filtered 705	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30% 7 Filtered 7	911 Filtered 702 904 1000 70.20% 90.40% -5.20% -2.20%  23 Filtered 701	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T1  Guess T5	754 926 1000 75.40% 92.60% No Filters 754 926	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60% -2.70%  420 Filtered  712 905	666 Filtered  701 899 1000 70.10% 89.90% -5.30% -2.70%  1308 Filtered  705 902	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30% 7 Filtered 700 898	911 Filtered  702 904 1000 70.20% 90.40% -5.20% -2.20%  23 Filtered  701 907	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%  9 Filtered 709 895
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5  Total	754 926 1000 75.40% 92.60% No Filters 754 926 1000	69 Filtered 708 899 1000 70.80% 89.90% -4.60% -2.70%  420 Filtered 712 905 1000	666 Filtered 701 899 1000 70.10% 89.90% -5.30% -2.70%  1308 Filtered 705 902 1000	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30%  7 Filtered 700 898 1000	911 Filtered  702 904 1000 70.20% 90.40% -5.20% -2.20%  23 Filtered  701 907 1000	119 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%  9 Filtered 709 895 1000
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5  Total  TOP 1	754 926 1000 75.40% 92.60% No Filters 754 926 1000 75.40%	-4.70%  69 Filtered  708 899 1000 70.80% 89.90% -4.60% -2.70%  420 Filtered  712 905 1000 71.20%	666 Filtered  701 899 1000 70.10% 89.90% -5.30% -2.70%  1308 Filtered  705 902 1000 70.50%	777 Filtered 711 903 1000 71.10% 90.30% -4.30% -2.30%  7 Filtered 700 898 1000 70.00%	911 Filtered  702 904 1000 70.20% 90.40% -5.20%  -2.20%  23 Filtered  701 907 1000 70.10%	9 Filtered 689 908 1000 68.90% 90.80% -6.50% -1.80%  9 Filtered 709 895 1000 70.90%

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

**TOP 1 AVG TOP 5 AVG** -8.61% -4.15%

**TOP 1 AVG TOP 5 AVG** -5.02% -2.40%

				ResNet152 V2	) -	
Seeds		69	666	777	911	119
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	690	611	614	601	607	612
Guess T5	885	824	837	840	828	825
Total	1000	1000	1000	1000	1000	1000
TOP 1	69.00%	61.10%	61.40%	60.10%	60.70%	61.20%
TOP 5	88.50%	82.40%	83.70%	84.00%	82.80%	82.50%
Diff TOP 1		-7.90%	-7.60%	-8.90%	-8.30%	-7.80%
Diff TOP 5		-6.10%	-4.80%	-4.50%	-5.70%	-6.00%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	690	608	606	604	613	617
Guess T5	885	837	841	833	837	827
Total	1000	1000	1000	1000	1000	1000
TOP 1	69.00%	60.80%	60.60%	60.40%	61.30%	61.70%
TOP 5	88.50%	83.70%	84.10%	83.30%	83.70%	82.70%
Diff TOP 1		-8.20%	-8.40%	-8.60%	-7.70%	-7.30%
Diff TOP 5		-4.80%	-4.40%	-5.20%	-4.80%	-5.80%
Coodo		CO	000	ResNet50 V2	011	110
Seeds	No Filters	69 Filtered	666 Filtered	777 Filtered	911 Filtered	119 Filtered
Guess T1	651	568	576	575	569	576
Guess T5	866	805	807	798	799	807
Total	1000	1000	1000	1000	1000	1000
TOP 1	65.10%	56.80%	57.60%	57.50%	56.90%	57.60%
TOP 5	86.60%	80.50%	80.70%	79.80%	79.90%	80.70%
Diff TOP 1		-8.30%	-7.50%	-7.60%	-8.20%	-7.50%
Diff TOP 5		-6.10%	-5.90%	-6.80%	-6.70%	-5.90%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	651	578	558	570	571	578
Guess T5	866	802	795	808	805	795
Total	1000	1000	1000	1000	1000	1000
TOP 1	65.10%	57.80%	55.80%	57.00%	57.10%	57.80%
TOP 5	86.60%	80.20%	79.50%	80.80%	80.50%	79.50%
Diff TOP 1		-7.30%	-9.30%	-8.10%	-8.00%	-7.30%
		0.400/	7.400/	E 000/	0.400/	7.400/

-7.10%

-6.40%

Diff TOP 5

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri

Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

**TOP 1 AVG TOP 5 AVG** -8.07% -5.21%

**TOP 1 AVG TOP 5 AVG** -7.91% -6.39%

-6.10%

-7.10%

-5.80%

#### Keras Multifilter

				ResNet50		
Seeds	A. 5-14	69	666	777	911	119
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	694	553	544	547	539	533
Guess T5	897	781	787	784	785	773
Total	1000	1000	1000	1000	1000	1000
TOP 1	69.40%	55.30%	54.40%	54.70%	53.90%	53.30%
TOP 5	89.70%	78.10%	78.70%	78.40%	78.50%	77.30%
Diff TOP 1		-14.10%	-15.00%	-14.70%	-15.50%	-16.10%
Diff TOP 5		-11.60%	-11.00%	-11.30%	-11.20%	-12.40%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	694	551	535	538	553	546
Guess T5	897	774	777	784	770	785
Total	1000	1000	1000	1000	1000	1000
TOP 1	69.40%	55.10%	53.50%	53.80%	55.30%	54.60%
TOP 5	89.70%	77.40%	77.70%	78.40%	77.00%	78.50%
Diff TOP 1		-14.30%	-15.90%	-15.60%	-14.10%	-14.80%
					40 -001	
		-12.30%	-12.00%	-11.30%	-12.70%	-11.20%
Diff TOP 5				VGG16		-11.20%
Diff TOP 5	No Filters	-12.30% 69 Filtered	-12.00% 666 Filtered		911 Filtered	-11.20%  119 Filtered
Diff TOP 5 Seeds Guess T1	No Filters 631	69	666	VGG16	911	119
Diff TOP 5 Seeds		69 Filtered	666 Filtered	VGG16 777 Filtered	911 Filtered	119 Filtered 522
Seeds  Guess T1  Guess T5	631	69 Filtered 517	666 Filtered 527	VGG16 777 Filtered 528	911 Filtered 523	119 Filtered 522 753
Seeds Guess T1 Guess T5 Total	631 856	69 Filtered 517 758	666 Filtered 527 767	VGG16  777  Filtered  528  753	911 Filtered 523 767	119 Filtered 522 753 1000
Seeds  Guess T1  Guess T5  Total  TOP 1	631 856 1000	69 Filtered 517 758 1000	666 Filtered 527 767 1000	VGG16 777 Filtered 528 753 1000	911 Filtered 523 767 1000	119 Filtered 522 753 1000 52.20%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5	631 856 1000 63.10%	69 Filtered 517 758 1000 51.70%	666 Filtered 527 767 1000 52.70%	VGG16 777 Filtered 528 753 1000 52.80%	911 Filtered 523 767 1000 52.30%	119 Filtered 522 753 1000 52.20%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	631 856 1000 63.10%	69 Filtered 517 758 1000 51.70% 75.80%	666 Filtered 527 767 1000 52.70% 76.70%	VGG16 777 Filtered 528 753 1000 52.80% 75.30%	911 Filtered 523 767 1000 52.30% 76.70%	119 Filtered 522 753 1000 52.20% 75.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5	631 856 1000 63.10%	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30%	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%	119 Filtered 522 753 1000 52.20% 75.30% -10.90% -10.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5	631 856 1000 63.10%	69 Filtered 517 758 1000 51.70% 75.80% -11.40%	666 Filtered  527 767 1000 52.70% 76.70% -10.40%	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30%	911 Filtered 523 767 1000 52.30% 76.70% -10.80%	119 Filtered 522 753 1000 52.20% 75.30% -10.90%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	631 856 1000 63.10% 85.60%	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30%	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%	119 Filtered  522 753 1000 52.20% 75.30% -10.90% -10.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1	631 856 1000 63.10% 85.60%	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%  420 Filtered	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%  1308 Filtered	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30%	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%	119 Filtered 522 753 1000 52.20% 75.30% -10.90% -10.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	631 856 1000 63.10% 85.60%	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%  420 Filtered  520	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%  1308 Filtered 522	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30% 7 Filtered 527	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%  23 Filtered 523	119 Filtered  522 753 1000 52.20% 75.30% -10.90% -10.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5  Total	631 856 1000 63.10% 85.60% No Filters 631 856	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%  420 Filtered  520 768	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%  1308 Filtered  522 767	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30% 7 Filtered 527 759	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%  23 Filtered  523 763	119 Filtered 522 753 1000 52.20% 75.30% -10.90% -10.30%  9 Filtered 512 754 1000
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T1  Guess T5	631 856 1000 63.10% 85.60% No Filters 631 856 1000	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%  420 Filtered  520 768 1000	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%  1308 Filtered  522 767 1000	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30% 7 Filtered 527 759 1000	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%  23 Filtered  523 763 1000	119 Filtered 522 753 1000 52.20% 75.30% -10.90% -10.30%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5  Total  TOP 5	631 856 1000 63.10% 85.60% No Filters 631 856 1000 63.10%	69 Filtered  517 758 1000 51.70% 75.80% -11.40% -9.80%  420 Filtered  520 768 1000 52.00%	666 Filtered  527 767 1000 52.70% 76.70% -10.40% -8.90%  1308 Filtered  522 767 1000 52.20%	VGG16 777 Filtered 528 753 1000 52.80% 75.30% -10.30% -10.30% 7 Filtered 527 759 1000 52.70%	911 Filtered  523 767 1000 52.30% 76.70% -10.80% -8.90%  23 Filtered  523 763 1000 52.30%	119 Filtered  522 753 1000 52.20% 75.30% -10.90% -10.30%  9 Filtered  512 754 1000 51.20%

No Filters	Risultati ottenuti dai modelli con le
	immagini originali del dataset Aline

Seed applicato alla generazione random dei filtri

Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

TOP 1 AVG TOP 5 AVG

-15.01% -11.70%

TOP 1 AVG TOP 5 AVG

-10.89% -9.51%

#### Keras Multifilter

53.40%

78.70%

-11.50%

-7.50%

				VGG19		
Seeds		69	666	777	911	119
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	649	534	547	533	539	539
Guess T5	862	778	785	781	788	777
Total	1000	1000	1000	1000	1000	1000
TOP 1	64.90%	53.40%	54.70%	53.30%	53.90%	53.90%
TOP 5	86.20%	77.80%	78.50%	78.10%	78.80%	77.70%
Diff TOP 1		-11.50%	-10.20%	-11.60%	-11.00%	-11.00%
Diff TOP 5		-8.40%	-7.70%	-8.10%	-7.40%	-8.50%
Caada		420	1200	7	22	
Seeds	No Filters	420 Filtered	1308 Filtered	7 Filtered	23 Filtered	9 Filtered
Guess T1	649	533	528	533	534	537
Guess T5	862	777	781	773	787	776
Total	1000	1000	1000	1000	1000	1000

52.80%

78.10%

-12.10%

-8.10%

53.30%

77.30%

-11.60%

-8.90%

53.30%

77.70%

-11.60%

-8.50%

64.90%

86.20%

TOP 1

TOP 5

Diff TOP 1

Diff TOP 5

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

TOP 1 AVG TOP 5 AVG -11.33% -8.17%

53.70%

77.60%

-11.20%

-8.60%

				MobileNet V2		
Seeds		69	666	777	911	119
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	711	584	603	604	592	617
Guess T5	909	845	836	836	847	846
Total	1000	1000	1000	1000	1000	1000
TOP 1	71.10%	58.40%	60.30%	60.40%	59.20%	61.70%
TOP 5	90.90%	84.50%	83.60%	83.60%	84.70%	84.60%
Diff TOP 1		-12.70%	-10.80%	-10.70%	-11.90%	-9.40%
Diff TOP 5		-6.40%	-7.30%	-7.30%	-6.20%	-6.30%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	711	619	605	598	598	594
Guess T5	909	846	837	837	843	834
Total	1000	1000	1000	1000	1000	1000
TOP 1	71.10%	61.90%	60.50%	59.80%	59.80%	59.40%
TOP 5	90.90%	84.60%	83.70%	83.70%	84.30%	83.40%
			40.000/	44 200/	44 200/	44 700/
Diff TOP 1		-9.20%	-10.60%	-11.30%	-11.30%	-11.70%
		-9.20% -6.30%	-7.20%	-7.20%	-6.60%	
Diff TOP 5		-6.30%	-7.20%	-7.20% Inception V3	-6.60%	-7.50%
Diff TOP 5	No Filters			-7.20%		
Diff TOP 5 Seeds	No Filters 781	<b>-6.30%</b>	<b>-7.20%</b>	Inception V3	-6.60% 911	-7.50% 119
Diff TOP 5 Seeds Guess T1		-6.30% 69 Filtered	-7.20% 666 Filtered	Inception V3	-6.60% 911 Filtered	-7.50%  119 Filtered 735
Seeds  Guess T1  Guess T5	781	-6.30%  69 Filtered 725	-7.20%  666  Filtered 728	Inception V3 777 Filtered 721	911 Filtered 728	-7.50%  119 Filtered  735 918
Seeds Guess T1 Guess T5 Total	781 939	-6.30%  69 Filtered  725 921	-7.20%  666 Filtered 728 915	-7.20% Inception V3 777 Filtered 721 914	911 Filtered 728 918	-7.50%  119 Filtered  735  918  1000
Seeds  Guess T1  Guess T5  Total  TOP 1	781 939 1000	-6.30%  69 Filtered  725  921  1000	-7.20%  666 Filtered 728 915 1000	-7.20% Inception V3 777 Filtered 721 914 1000	911 Filtered 728 918 1000	-7.50%  119 Filtered  735  918  1000  73.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5	781 939 1000 78.10%	-6.30%  69 Filtered  725  921  1000  72.50%	-7.20%  666 Filtered  728  915  1000  72.80%	-7.20% Inception V3 777 Filtered 721 914 1000 72.10%	911 Filtered 728 918 1000 72.80%	-7.50% 119 Filtered
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	781 939 1000 78.10%	69 Filtered 725 921 1000 72.50% 92.10%	666 Filtered 728 915 1000 72.80% 91.50%	-7.20%  Inception V3 777 Filtered 721 914 1000 72.10% 91.40%	911 Filtered 728 918 1000 72.80% 91.80%	119 Filtered 735 918 1000 73.50% 91.80%
Seeds  Guess T1 Guess T5 Total TOP 5  Diff TOP 1 Diff TOP 5  Seeds	781 939 1000 78.10%	-6.30%  69 Filtered  725 921 1000 72.50% 92.10% -5.60% -1.80%	-7.20%  666 Filtered  728 915 1000 72.80% 91.50% -5.30% -2.40%	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%	911 Filtered 728 918 1000 72.80% 91.80% -5.30% -2.10%	-7.50%  119 Filtered  735 918 1000 73.50% 91.80% -4.60% -2.10%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1	781 939 1000 78.10%	-6.30%  69 Filtered  725 921 1000 72.50% 92.10% -5.60%	-7.20%  666 Filtered 728 915 1000 72.80% 91.50% -5.30%	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%  -2.50%	911 Filtered 728 918 1000 72.80% 91.80% -5.30%	-7.50%  119 Filtered  735 918 1000 73.50% 91.80% -4.60%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5	781 939 1000 78.10% 93.90%	-6.30%  69 Filtered  725 921 1000 72.50% 92.10% -5.60% -1.80%	-7.20%  666 Filtered  728  915  1000  72.80%  91.50%  -5.30%  -2.40%	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%  -2.50%	911 Filtered 728 918 1000 72.80% 91.80% -5.30% -2.10%	-7.50%  119 Filtered  735 918 1000 73.50% 91.80% -4.60% -2.10%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1	781 939 1000 78.10% 93.90%	-6.30%  Filtered  725 921 1000 72.50% 92.10% -5.60% -1.80%  420 Filtered	-7.20%  666 Filtered  728 915 1000 72.80% 91.50% -5.30% -2.40%	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%  -2.50%  7  Filtered	911 Filtered  728 918 1000 72.80% 91.80% -5.30% -2.10%	119 Filtered 735 918 1000 73.50% 91.80% -4.60% -2.10%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	781 939 1000 78.10% 93.90% No Filters 781	-6.30%  69 Filtered  725 921 1000 72.50% 92.10% -5.60% -1.80%	-7.20%  666 Filtered  728 915 1000 72.80% 91.50% -5.30% -2.40%  1308 Filtered  729	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%  -2.50%  7  Filtered  731	911 Filtered 728 918 1000 72.80% 91.80% -5.30% -2.10%	119 Filtered  735 918 1000 73.50% 91.80% -4.60% -2.10%  9 Filtered  727 921
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5  Total	781 939 1000 78.10% 93.90% No Filters 781 939	69 Filtered 725 921 1000 72.50% 92.10% -5.60% -1.80%  420 Filtered 722 918	-7.20%  666 Filtered  728 915 1000 72.80% 91.50% -5.30% -2.40%  1308 Filtered  729 922	-7.20%  Inception V3  777  Filtered  721  914  1000  72.10%  91.40%  -6.00%  -2.50%  7  Filtered  731  912	911 Filtered  728 918 1000 72.80% 91.80% -5.30% -2.10%  23 Filtered  732 916	119 Filtered 735 918 1000 73.50% 91.80% -4.60% -2.10%  9 Filtered 727 921 1000
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T1  Guess T5	781 939 1000 78.10% 93.90% No Filters 781 939 1000	69 Filtered 725 921 1000 72.50% 92.10% -5.60% -1.80%  420 Filtered 722 918 1000	-7.20%  666 Filtered  728 915 1000 72.80% 91.50% -5.30% -2.40%  1308 Filtered  729 922 1000	77.20% Inception V3 777 Filtered 721 914 1000 72.10% 91.40% -6.00% -2.50% 7 Filtered 731 912 1000	911 Filtered 728 918 1000 72.80% 91.80% -5.30% -2.10%  23 Filtered 732 916 1000	119 Filtered 735 918 1000 73.50% 91.80% -4.60% -2.10%

-1.70%

-2.10%

Diff TOP 5

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

**TOP 1 AVG TOP 5 AVG** -10.96% -6.83%

**TOP 1 AVG TOP 5 AVG** -5.32% -2.15%

-2.30%

-1.80%

-2.70%

		_	_	ResNet152	_	
Seeds	No Filters	69 Filtered	666 Filtered	777 Filtered	911 Filtered	119 Filtered
Guess T1	774	682	688	694	687	690
Guess T5	947	914	894	903	907	900
Total	1000	1000	1000	1000	1000	1000
TOP 1	77.40%	68.20%	68.80%	69.40%	68.70%	69.00%
TOP 5	94.70%	91.40%	89.40%	90.30%	90.70%	90.00%
Diff TOP 1		-9.20%	-8.60%	-8.00%	-8.70%	-8.40%
Diff TOP 5		-3.30%	-5.30%	-4.40%	-4.00%	-4.70%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	774	691	688	689	691	692
Guess T5	947	906	906	904	909	905
Total	1000	1000	1000	1000	1000	1000
TOP 1	77.40%	69.10%	68.80%	68.90%	69.10%	69.20%
	04700/	90.60%	90.60%	90.40%	90.90%	90.50%
TOP 5	94.70%	30.0070				
	94.70%	-8.30%	-8.60%	-8.50%	-8.30%	-8.20%
Diff TOP 1	94.70%			-8.50% -4.30%	-8.30% -3.80%	
Diff TOP 1 Diff TOP 5	94.70%	-8.30% -4.10%	-8.60% -4.10%	-4.30% AlexNet	-3.80%	-4.20%
Diff TOP 1 Diff TOP 5		-8.30% -4.10%	-8.60% -4.10%	-4.30% AlexNet	-3.80% 911	-4.20% 119
Diff TOP 5  Diff TOP 5  Seeds	No Filters	-8.30% -4.10%	-8.60% -4.10%	-4.30%  AlexNet 777 Filtered	-3.80%	-4.20% 119 Filtered
Diff TOP 1 Diff TOP 5 Seeds Guess T1		-8.30% -4.10%	-8.60% -4.10%	-4.30% AlexNet	-3.80% 911 Filtered	-4.20% 119 Filtered 428
Diff TOP 1 Diff TOP 5 Seeds Guess T1	No Filters 577	-8.30% -4.10%	-8.60% -4.10%	-4.30%  AlexNet 777  Filtered 418	911 Filtered 413	119 Filtered 428 667
Diff TOP 1 Diff TOP 5 Seeds Guess T1 Guess T5 Total	No Filters 577 802 1000	-8.30% -4.10% 69 Filtered 428 668	-8.60% -4.10% 666 Filtered 421 664	-4.30%  AlexNet 777 Filtered 418 665	911 Filtered 413 665	-4.20%  119 Filtered  428 667 1000
Diff TOP 1 Diff TOP 5 Seeds Guess T1 Guess T5 Total TOP 1	No Filters 577 802	-8.30% -4.10% 69 Filtered 428 668 1000	-8.60% -4.10% 666 Filtered 421 664 1000	-4.30%  AlexNet 777 Filtered 418 665 1000	911 Filtered 413 665 1000	119 Filtered 428 667 1000 42.80%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5	No Filters 577 802 1000 57.70%	-8.30% -4.10% 69 Filtered 428 668 1000 42.80%	-8.60% -4.10% 666 Filtered 421 664 1000 42.10%	-4.30%  AlexNet 777 Filtered 418 665 1000 41.80%	911 Filtered 413 665 1000 41.30%	119 Filtered  428 667 1000 42.80% 66.70%
TOP 5 Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5	No Filters 577 802 1000 57.70%	-8.30% -4.10%  69 Filtered 428 668 1000 42.80% 66.80%	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40%	-4.30%  AlexNet 777 Filtered 418 665 1000 41.80% 66.50%	911 Filtered 413 665 1000 41.30% 66.50%	-4.20% 119
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5	No Filters 577 802 1000 57.70%	-8.30% -4.10%  69 Filtered  428 668 1000 42.80% 66.80% -14.90% -13.40%	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%  -13.70%	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1	No Filters 577 802 1000 57.70%	-8.30% -4.10%  69 Filtered 428 668 1000 42.80% 66.80% -14.90%	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60%	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%	911 Filtered  413 665 1000 41.30% 66.50% -16.40%	119 Filtered 428 667 1000 42.80% 66.70% -14.90%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5	No Filters 577 802 1000 57.70% 80.20%	-8.30% -4.10%  69 Filtered  428 668 1000 42.80% 66.80% -14.90% -13.40%	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%  -13.70%	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	No Filters	-8.30% -4.10%  69 Filtered  428 668 1000 42.80% 66.80% -14.90% -13.40%  420 Filtered	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%  1308 Filtered	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%  -13.70%  7  Filtered	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 5  Diff TOP 5  Seeds  Guess T1	No Filters	-8.30% -4.10%  69 Filtered 428 668 1000 42.80% 66.80% -14.90% -13.40%  420 Filtered 422	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%  1308 Filtered  413	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%  -13.70%  7  Filtered  423	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%  9 Filtered  415 648
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5	No Filters	-8.30% -4.10%  69 Filtered  428 668 1000 42.80% 66.80% -14.90% -13.40%  420 Filtered  422 667	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%  1308 Filtered  413 657	-4.30%  AlexNet 777 Filtered 418 665 1000 41.80% 66.50% -15.90% -13.70%  7 Filtered 423 659	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%  23 Filtered  419 668	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%  9 Filtered  415 648 1000
Seeds  Guess T1  Guess T5  Total  TOP 1  Diff TOP 5  Diff TOP 5  Seeds  Guess T1  Guess T5  Total  TOP 5  Total	No Filters	-8.30% -4.10%  Filtered  428 668 1000 42.80% 66.80% -14.90% -13.40%  420 Filtered  422 667 1000	-8.60% -4.10%  666 Filtered  421 664 1000 42.10% 66.40% -15.60% -13.80%  1308 Filtered  413 657 1000	-4.30%  AlexNet  777  Filtered  418  665  1000  41.80%  66.50%  -15.90%  -13.70%  7  Filtered  423  659  1000	911 Filtered  413 665 1000 41.30% 66.50% -16.40% -13.70%  23 Filtered  419 668 1000	119 Filtered  428 667 1000 42.80% 66.70% -14.90% -13.50%

-14.50%

-13.50%

Diff TOP 5

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

**TOP 1 AVG TOP 5 AVG** -8.48% -4.22%

**TOP 1 AVG TOP 5 AVG** -15.70% -13.92%

-13.40%

-15.40%

-14.30%

			_	ResNet50	_	
Seeds	No Filters	69 Filtered	666 Filtered	777 Filtered	911 Filtered	119 Filtered
Guess T1	763	665	663	667	669	662
Guess T5	934	885	870	880	880	878
Total	1000	1000	1000	1000	1000	1000
TOP 1	76.30%	66.50%	66.30%	66.70%	66.90%	66.20%
TOP 5	93.40%	88.50%	87.00%	88.00%	88.00%	87.80%
Diff TOP 1		-9.80%	-10.00%	-9.60%	-9.40%	-10.10%
Diff TOP 5		-4.90%	-6.40%	-5.40%	-5.40%	-5.60%
Seeds		420	1308	7	23	9
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered
Guess T1	763	658	673	663	661	667
Guess T5	934	883	882	887	880	884
Total	1000	1000	1000	1000	1000	1000
TOP 1	76.30%	65.80%	67.30%	66.30%	66.10%	66.70%
TOP 5	93.40%	88.30%	88.20%	88.70%	88.00%	88.40%
101 0				1	40.000/	
		-10.50%	-9.00%	-10.00%	-10.20%	-9.60%
Diff TOP 1		-10.50% -5.10%	-9.00% -5.20%	-10.00% -4.70%	-10.20%	-9.60% -5.00%
Diff TOP 1 Diff TOP 5		-5.10%	-5.20%	-4.70% VGG16	-5.40%	-5.00%
Diff TOP 1 Diff TOP 5		<b>-5.10%</b>	<b>-5.20%</b>	-4.70% VGG16	- <b>5.40</b> %	-5.00% 119
Diff TOP 5  Diff TOP 5  Seeds	No Filters	-5.10% 69 Filtered	-5.20% 666 Filtered	-4.70% VGG16 777 Filtered	-5.40% 911 Filtered	-5.00% 119 Filtered
Diff TOP 5  Seeds  Guess T1	No Filters	-5.10% 69 Filtered 606	-5.20%  666 Filtered 610	-4.70% VGG16 777 Filtered 617	911 Filtered 622	-5.00%  119 Filtered 617
Diff TOP 1 Diff TOP 5 Seeds Guess T1 Guess T5	No Filters 722 910	-5.10%  69 Filtered 606 846	-5.20%  666 Filtered 610 845	-4.70% VGG16 777 Filtered 617 843	911 Filtered 622 848	119 Filtered 617 845
Diff TOP 1 Diff TOP 5 Seeds Guess T1 Guess T5 Total	No Filters 722 910 1000	69 Filtered 606 846 1000	-5.20%  666 Filtered 610 845 1000	-4.70%  VGG16  777  Filtered  617  843  1000	911 Filtered 622 848 1000	-5.00%  119 Filtered 617 845 1000
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1	No Filters 722 910	-5.10%  69 Filtered 606 846	-5.20%  666 Filtered 610 845	-4.70% VGG16 777 Filtered 617 843	911 Filtered 622 848	-5.00%  119 Filtered 617 845
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5	No Filters 722 910 1000 72.20%	69 Filtered 606 846 1000 60.60%	666 Filtered 610 845 1000 61.00% 84.50%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%	911 Filtered 622 848 1000 62.20%	119 Filtered 617 845 1000 61.70%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1	No Filters 722 910 1000 72.20%	69 Filtered 606 846 1000 60.60% 84.60%	666 Filtered 610 845 1000 61.00%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%	911 Filtered 622 848 1000 62.20% 84.80%	119 Filtered 617 845 1000 61.70% 84.50%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5	No Filters 722 910 1000 72.20%	69 Filtered  606 846 1000 60.60% 84.60% -11.60% -6.40%	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%	119 Filtered 617 845 1000 61.70% 84.50% -10.50%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1	No Filters 722 910 1000 72.20%	69 Filtered 606 846 1000 60.60% 84.60% -11.60%	666 Filtered 610 845 1000 61.00% 84.50% -11.20%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%	911 Filtered 622 848 1000 62.20% 84.80% -10.00%	119 Filtered 617 845 1000 61.70% 84.50% -10.50%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5	No Filters 722 910 1000 72.20% 91.00%	69 Filtered 606 846 1000 60.60% 84.60% -11.60% -6.40%	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%	-5.00%  119 Filtered 617 845 1000 61.70% 84.50% -10.50% -6.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds	No Filters 722 910 1000 72.20% 91.00%	69 Filtered 606 846 1000 60.60% 84.60% -11.60% -6.40%  Filtered	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%	119 Filtered 617 845 1000 61.70% 84.50% -10.50% -6.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 5  Diff TOP 5  Seeds  Guess T1	No Filters 722 910 1000 72.20% 91.00%  No Filters 722	69 Filtered 606 846 1000 60.60% 84.60% -11.60% -6.40%  420 Filtered 615	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%  7  Filtered  615	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%  23 Filtered 609	119 Filtered 617 845 1000 61.70% 84.50% -10.50% -6.50%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1  Guess T5	No Filters 722 910 1000 72.20% 91.00%  No Filters 722 910	69 Filtered 606 846 1000 60.60% 84.60% -11.60% -6.40%  420 Filtered 615 841	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%  1308 Filtered 608 838	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%  7  Filtered  615  849	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%  23 Filtered 609 846	119 Filtered 617 845 1000 61.70% 84.50% -10.50% -6.50%  9 Filtered 602 845
Seeds  Guess T1  Guess T5  Total  TOP 1  Diff TOP 5  Diff TOP 5  Diff TOP 5  Seeds  Guess T1  Guess T5  Total  TOP 5  Total  TOP 5  Total  TOP 5  Diff TOP 5  Total  Top 5  Total	No Filters 722 910 1000 72.20% 91.00%  No Filters 722 910 1000	69 Filtered 606 846 1000 60.60% 84.60% -11.60% -6.40%  420 Filtered 615 841 1000	666 Filtered 610 845 1000 61.00% 84.50% -11.20% -6.50%  1308 Filtered 608 838 1000	-4.70%  VGG16  777  Filtered  617  843  1000  61.70%  84.30%  -10.50%  -6.70%  7  Filtered  615  849  1000	911 Filtered 622 848 1000 62.20% 84.80% -10.00% -6.20%  23 Filtered 609 846 1000	119 Filtered 617 845 1000 61.70% 84.50% -10.50% -6.50%  9 Filtered 602 845 1000

-7.20%

-6.90%

Diff TOP 5

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

**TOP 1 AVG TOP 5 AVG** -9.82% -5.31%

**TOP 1 AVG TOP 5 AVG** -10.99% -6.54%

-6.40%

-6.50%

-6.10%

				VGG19		
Seeds	No Filters	69 Filtered	666 Filtered	777 Filtered	911 Filtered	119 Filtered
Guess T1	730	621	618	630	618	631
Guess T5	908	874	850	862	850	850
Total	1000	1000	1000	1000	1000	1000
TOP 1	73.00%	62.10%	61.80%	63.00%	61.80%	63.10%
TOP 5	90.80%	87.40%	85.00%	86.20%	85.00%	85.00%
Diff TOP 1		-10.90%	-11.20%	-10.00%	-11.20%	-9.90%
Diff TOP 5		-3.40%	-5.80%	-4.60%	-5.80%	-5.80%
Seeds	No Filtoro	420	1308	7	23	9
Guess T1	No Filters 730	Filtered 633	Filtered 628	Filtered 639	Filtered 629	Filtered 620
Guess T5	908	857	853	854	866	854
Total	1000	1000	1000	1000	1000	1000
TOP 1	73.00%	63.30%	62.80%	63.90%	62.90%	62.00%
TOP 5	90.80%	85.70%	85.30%	85.40%	86.60%	85.40%
IOF J	30.0070	00.1070				
	,	-9.70%	-10.20%	-9.10%	<b>-10.10%</b> ↓	<b>-11.00</b> %
Diff TOP 1		-9.70% -5.10%	-10.20%	-9.10% -5.40%	-10.10%	
Diff TOP 1 Diff TOP 5		-5.10%	-5.50%	-5.40% SqueezeNet 1.	-4.20% 1	-5.40%
Diff TOP 5  Diff TOP 5	No Filters		-5.50%	-5.40%	-4.20%	
Diff TOP 5  Diff TOP 5	No Filters 612	<b>-5.10</b> %	-5.50% S	-5.40% SqueezeNet 1.	-4.20% 1 911	-5.40% 119 Filtered
Diff TOP 1 Diff TOP 5 Seeds Guess T1		-5.10% 69 Filtered	-5.50% S 666 Filtered	-5.40%  SqueezeNet 1. 777  Filtered	-4.20%  1 911 Filtered	-5.40% 119 Filtered 458
Diff TOP 1 Diff TOP 5 Seeds Guess T1	612 817 1000	-5.10%  69 Filtered  450  706  1000	-5.50%  666 Filtered  468 697 1000	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000	-4.20%  1  911  Filtered  457  698  1000	119 Filtered 458 708
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total	612 817 1000 61.20%	69 Filtered 450 706	-5.50%  666  Filtered  468  697  1000  46.80%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%	-4.20%  1  911  Filtered  457  698  1000  45.70%	119 Filtered 458 708 1000 45.80%
Diff TOP 1 Diff TOP 5  Seeds Guess T1 Guess T5	612 817 1000	69 Filtered 450 706 1000 45.00% 70.60%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%	-4.20%  911  Filtered  457  698  1000  45.70%  69.80%	708 1000 45.80% 70.80%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5	612 817 1000 61.20%	69 Filtered  450 706 1000 45.00% 70.60% -16.20%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%	119 Filtered  458 708 1000 45.80% 70.80% -15.40%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1	612 817 1000 61.20%	69 Filtered 450 706 1000 45.00% 70.60%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%	-4.20%  911  Filtered  457  698  1000  45.70%  69.80%	119 Filtered 458 708 1000 45.80%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5 Seeds	612 817 1000 61.20% 81.70%	-5.10%  69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%	119 Filtered  458 708 1000 45.80% 70.80% -15.40%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5 Seeds	612 817 1000 61.20% 81.70%	-5.10%  69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered	119 Filtered  458 708 1000 45.80% 70.80% -15.40% -10.90%
Seeds  Guess T1  Guess T5  Total  TOP 1  TOP 5  Diff TOP 1  Diff TOP 5  Seeds  Guess T1	612 817 1000 61.20% 81.70%	69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered  447	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered  459	119 Filtered  458 708 1000 45.80% 70.80% -15.40% -10.90%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5 Seeds  Guess T1 Guess T5	612 817 1000 61.20% 81.70% No Filters 612 817	69 Filtered 450 706 1000 45.00% 70.60% -16.20% -11.10%  420 Filtered 459 703	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered  447 701	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  7  Filtered  443  712	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered  459  709	119 Filtered  458 708 1000 45.80% 70.80% -15.40% -10.90%  9 Filtered  463 695
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5 Seeds  Guess T1 Guess T5 Total	612 817 1000 61.20% 81.70% No Filters 612 817 1000	69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%  420 Filtered  459 703 1000	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered  447 701 1000	-5.40%  SqueezeNet 1.  777  Filtered  457 698 1000 45.70% 69.80% -15.50% -11.90%  7  Filtered  443 712 1000	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered  459  709  1000	119 Filtered  458 708 1000 45.80% 70.80% -15.40% -10.90%  9 Filtered  463 695 1000
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1	612 817 1000 61.20% 81.70% No Filters 612 817 1000 61.20%	69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%  420 Filtered  459 703 1000 45.90%	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered  447 701 1000 44.70%	-5.40%  SqueezeNet 1.  777  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  7  Filtered  443  712  1000  44.30%	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered  459  709  1000  45.90%	119 Filtered  458 708 1000 45.80% 70.80% -15.40% -10.90%  9 Filtered  463 695 1000 46.30%
Diff TOP 1 Diff TOP 5  Seeds  Guess T1 Guess T5 Total TOP 1 TOP 5 Diff TOP 1 Diff TOP 5 Seeds  Guess T1 Guess T5 Total	612 817 1000 61.20% 81.70% No Filters 612 817 1000	69 Filtered  450 706 1000 45.00% 70.60% -16.20% -11.10%  420 Filtered  459 703 1000	-5.50%  666 Filtered  468 697 1000 46.80% 69.70% -14.40% -12.00%  1308 Filtered  447 701 1000	-5.40%  SqueezeNet 1.  777  Filtered  457 698 1000 45.70% 69.80% -15.50% -11.90%  7  Filtered  443 712 1000	-4.20%  1  911  Filtered  457  698  1000  45.70%  69.80%  -15.50%  -11.90%  23  Filtered  459  709  1000	119 Filtered  458 708 1000 45.80% 70.80% -15.40%

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

TOP 1 AVG TOP 5 AVG -5.10% -10.33%

TOP 1 AVG TOP 5 AVG -15.59% -11.43%

			VGG19 BN						
Seeds		69	666	777	911	119			
	No Filters	Filtered	Filtered	Filtered	Filtered	Filtered			
Guess T1	746	667	666	655	658	657			
Guess T5	927	886	882	881	880	878			
Total	1000	1000	1000	1000	1000	1000			
TOP 1	74.60%	66.70%	66.60%	65.50%	65.80%	65.70%			
TOP 5	92.70%	88.60%	88.20%	88.10%	88.00%	87.80%			
Diff TOP 1		-7.90%	-8.00%	-9.10%	-8.80%	-8.90%			
Diff TOP 5		-4.10%	-4.50%	-4.60%	-4.70%	-4.90%			

No Filters	Risultati ottenuti dai modelli con le immagini originali del dataset Aline
1234	Seed applicato alla generazione random dei filtri
Filtered	Risultati ottenuti dal testing dei modelli con le immagini del dataset Aline alterato dai filtri di Diego.

Seeds		420		1308		7	23	9
	No Filters	Filtered	F	iltered	Filtere	ed	Filtered	Filtered
Guess T1	746	664		665		659	670	650
Guess T5	927	873		887		885	886	878
Total	1000	1000		1000		1000	1000	1000
TOP 1	74.60%	66.40%		66.50%		65.90%	67.00%	65.00%
TOP 5	92.70%	87.30%		88.70%		88.50%	88.60%	87.80%
Diff TOP 1		-8.20%		-8.10%		-8.70%	-7.60%	-9.60%
Diff TOP 5		-5.40%		-4.00%		-4.20%	-4.10%	-4.90%

**TOP 1 AVG TOP 5 AVG** -8.49% -4.54%

#### DeepUndeeper Aline Results

Dataset	Tot. Imgs	Pulite	Distorte	AVG Error	AVG Error %
Aline_Normal	1000	860	140	0.52	51.84%
Alina_119	1000	650	350	0.93	93.15%
Alina_1308	1000	663	337	0.93	93.44%
Alina_23	1000	620	380	0.96	95.82%
Alina_420	1000	645	355	0.92	92.16%
Alina_666	1000	635	365	0.97	96.51%
Alina_69	1000	659	341	0.94	93.57%
Alina_7	1000	611	389	1.02	101.59%
Alina_777	1000	653	347	0.94	94.19%
Alina_9	1000	670	330	0.94	93.61%
Alina 911	1000	640	360	0.93	93.29%

Dataset	Nome del dataset che e' stato passato al modello	Pulite	Immagini considerate non alterate (??)
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AVG Error

Differenza tra immagine originale e immagine ottenuta dopo essere stata passata al modelo (pixel a pixel)

Distorte Immagini considerate alterate (??)