Simple Model

	Baseline		SWAD			
	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Baseline Diff	SWAD Diff
1	0.7903	0.4631	0.8548	0.4944	0.32722	0.36040
2	0.8226	0.4594	0.8548	0.4815	0.36317	0.37330
3	0.7742	0.4446	0.8225	0.4871	0.32954	0.33540
4	0.7742	0.4705	0.8064	0.5010	0.30371	0.30540
5	0.8065	0.4631	0.7742	0.4797	0.34335	0.29450
6	0.8065	0.4502	0.7903	0.4722	0.35627	0.31810
7	0.7903	0.4576	0.7903	0.4981	0.33276	0.29220
8	0.7903	0.4705	0.7903	0.5037	0.31984	0.28660
9	0.7581	0.4723	0.8064	0.4815	0.28574	0.32490
10	0.7742	0.4483	0.8064	0.4978	0.32585	0.30860
11	0.7742	0.4613	0.8225	0.4963	0.31294	0.32620
12	0.8064	0.5202	0.8064	0.5148	0.28620	0.29160
13	0.7581	0.4539	0.8548	0.4557	0.30419	0.39910
14	0.7742	0.4871	0.8225	0.4945	0.28711	0.32800
15	0.8065	0.4889	0.8559	0.5021	0.31752	0.35380
16	0.7742	0.4797	0.7967	0.4830	0.29449	0.31370
17	0.7742	0.4834	0.8142	0.5062	0.29080	0.30800
18	0.7903	0.4705	0.7991	0.4741	0.31984	0.32500
19	0.7903	0.4760	0.8117	0.4936	0.31431	0.31810
20	0.7742	0.4539	0.7931	0.5012	0.32032	0.29190
Average:	**0.7855**	**0.4687**	**0.8137**	**0.4909**	0.31676	0.32274
Std Dev:	**0.01743122754**	**0.0176464485**	**0.02470093045**	**0.01414729119**	0.02219522828	0.02971762546
Diff:			**0.0282**	**0.0222**		0.00598

Accuracy	
P-Value:	0.0001
95% Confidence	-0.032 to -0.0119
Diff	
P-Value	0.4752
95% Confidence	-0.0227 to 0.0108

Densenet121

	Baseline		SWAD		ROBUST				
	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Diff Baseline	Diff SWAD	Diff SWAD
1	0.8064	0.4704	0.8226	0.4871	0.8387	0.4981	0.3360	0.3355	0.3406
2	0.8225	0.4188	0.8708	0.4882	0.7258	0.5295	0.4037	0.3826	0.1963
3	0.7903	0.5424	0.8226	0.4716	0.8064	0.4907	0.2479	0.3510	0.3157
4	0.8548	0.4723	0.8387	0.4812	0.8225	0.4298	0.3825	0.3575	0.3927
5	0.8387	0.4613	0.8064	0.4684	0.8064	0.5036	0.3775	0.3380	0.3028
6	0.8226	0.4077	0.8064	0.4261	0.8225	0.4613	0.4149	0.3803	0.3612
7	0.8387	0.4539	0.8709	0.5055	0.7742	0.4779	0.3848	0.3654	0.2963
8	0.8871	0.4372	0.8064	0.4723	0.7741	0.4649	0.4499	0.3341	0.3092
9	0.8387	0.4207	0.8709	0.4631	0.8064	0.4815	0.4180	0.4078	0.3249
10	0.8387	0.3838	0.7948	0.4901	0.8548	0.4741	0.4549	0.3047	0.3807
11	0.8655	0.5044	0.8150	0.4872	0.7258	0.4433	0.3611	0.3278	0.2825
12	0.8548	0.4366	0.8709	0.4932	0.7741	0.4391	0.4182	0.3777	0.3350
13	0.8795	0.4239	0.8548	0.4981	0.7581	0.4926	0.4556	0.3567	0.2655
14	0.8721	0.4583	0.8387	0.5055	0.8225	0.5129	0.4138	0.3332	0.3096
15	0.8548	0.4583	0.8669	0.4812	0.7903	0.4575	0.3965	0.3857	0.3328
16	0.8387	0.4614	0.8064	0.4906	0.7903	0.4926	0.3773	0.3158	0.2977
17	0.8387	0.3951	0.8708	0.4691	0.7903	0.4557	0.4436	0.4017	0.3346
18	0.8795	0.4960	0.8226	0.4862	0.7742	0.4509	0.3835	0.3364	0.3233
19	0.8387	0.5077	0.8387	0.4711	0.8548	0.4981	0.3310	0.3676	0.3567
20	0.8226	0.4707	0.8226	0.4871	0.7581	0.5811	0.3519	0.3355	0.1770
Average:	**0.8442**	**0.4540**	**0.8359**	**0.4811**	**0.7935**	**0.4818**	0.3901	0.3548	0.3118
Std Dev:	**0.02497632829**	**0.0400156979**	**0.02691832628**	**0.01762917662**	**0.03683674188**	**0.03512276814**	0.04989625563	0.02831519027	0.0530347798
Diff:			**-0.0083**	**0.0271**	**-0.0507**	**0.0277**		0.0354	0.0784

Accuracy PValue	0.00858
Diff swadPValue	0.00889
Diff Robust Pval	

Resnet18

	Baseline		SWAD		SWAD pretrain		SWAD ROBUST						
	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Baseline Diff	Swad Diff	P-Swad Diff	RobustSwad Diff
1	0.7581	0.4188	0.8387	0.4649	0.887	0.4963	0.8064	0.4889	0.3392	0.3738	0.3907	0.3175
2	0.7903	0.4705	0.8225	0.4779	0.8709	0.4834	0.7581	0.4963	0.3198	0.3446	0.3875	0.2618
3	0.8226	0.4188	0.8064	0.4760	0.8871	0.4644	0.7903	0.4963	0.4038	0.3304	0.4227	0.294
4	0.8065	0.4483	0.8064	0.4048	0.8709	0.4651	0.8064	0.5037	0.3581	0.4016	0.4058	0.3027
5	0.8065	0.4022	0.8225	0.4293	0.8709	0.4907	0.8225	0.4668	0.4042	0.3932	0.3802	0.3557
6	0.8387	0.4760	0.7561	0.5111	0.8871	0.4871	0.7096	0.5073	0.3627	0.2450	0.4	0.2023
7	0.8387	0.4280	0.8387	0.4575	0.9032	0.5351	0.7742	0.5129	0.4107	0.3812	0.3681	0.2613
8	0.8226	0.3561	0.7581	0.4982	0.8874	0.4686	0.7742	0.5239	0.4665	0.2599	0.4188	0.2503
9	0.7581	0.4225	0.8387	0.4428	0.9516	0.5185	0.758	0.5129	0.3356	0.3959	0.4331	0.2451
10	0.7742	0.3561	0.8064	0.4538	0.8871	0.4631	0.7742	0.5166	0.4181	0.3526	0.424	0.2576
11	0.8870	0.5110	0.8548	0.5037	0.9193	0.4907	0.8225	0.5258	0.3760	0.3511	0.4286	0.2967
12	0.8064	0.4501	0.8387	0.4683	0.887	0.4963	0.7581	0.5055	0.3563	0.3704	0.3907	0.2526
13	0.8548	0.4465	0.7742	0.4502	0.8863	0.4852	0.8225	0.5129	0.4083	0.3240	0.4011	0.3096
14	0.7903	0.4114	0.7903	0.4612	0.9032	0.4834	0.8064	0.5221	0.3789	0.3291	0.4198	0.2843
15	0.8387	0.4871	0.8548	0.4613	0.7581	0.4941	0.7903	0.5147	0.3516	0.3935	0.264	0.2756
16	0.7742	0.4649	0.7903	0.4594	0.7903	0.4967	0.8064	0.4667	0.3093	0.3309	0.2936	0.3397
17	0.7903	0.3967	0.8225	0.4151	0.8709	0.5105	0.7419	0.5073	0.3936	0.4074	0.3604	0.2346
18	0.7903	0.4409	0.8543	0.4723	0.8361	0.4973	0.7994	0.5169	0.3494	0.3820	0.3388	0.2825
19	0.8387	0.4167	0.8225	0.4797	0.8526	0.4865	0.7733	0.5247	0.4220	0.3428	0.3661	0.2486
20	0.8548	0.3893	0.8387	0.4336	0.8489	0.4921	0.8211	0.5143	0.4655	0.4051	0.3568	0.3068
Average:	**0.8121**	**0.4306**	**0.8168**	**0.4611**	**0.872795**	**0.490255**	**0.78579**	**0.506825**	0.3815	0.3557	0.38254	0.278965
Std Dev:	**0.03480531628**	**0.04053304329**	**0.03034552945**	**0.02744288758**	**0.04226177164**	**0.01784838117**	**0.0306170386**	**0.01685379467**	0.04376706728	0.0448840128	0.04446941468	0.03729402767
			0.0047	**0.0305**	**0.0607**	**0.0597**	**-0.0263**	**0.0762**		0.0258	-0.0011	0.1025

Swad VS Baseline:		Baseline Vs SWAD Pre		Baseline Vs Robust Swad	
P-Value	**0.0082**	P-Value	**0.00000053**	P-Value:	**0.0001**

PVALUE:	**0.0740**
	0.9399
	0.000000001

	Baseline ROBUST		Pretrain ROBUST		Pretrain ROBUST w/ SWAD		SWAD ROBUST	
	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen	Test Accuracy Seen	Test Accuracy Unseen
1	0.8065	0.4594	0.8709	0.4852	0.9032	0.5037	0.8064	0.4889
2	0.7742	0.4631	0.8387	0.4741	0.9838	0.5	0.7581	0.4963
3	0.8065	0.4336	0.8548	0.4761	0.9677	0.4797	0.7903	0.4963
4	0.7581	0.5203	0.9042	0.4612	0.9516	0.4982	0.8064	0.5037
5	0.8548	0.4613	0.9677	0.4944	0.9677	0.4981	0.8225	0.4668
6	0.8387	0.4797	0.9677	0.4668	0.9516	0.4963	0.7096	0.5073
7	0.8226	0.4631	0.9677	0.5037	0.9516	0.5111	0.7742	0.5129
8	0.8226	0.3690	0.9193	0.5073	0.9354	0.4686	0.7742	0.5239
9	0.8387	0.4299	0.9677	0.4778	0.9677	0.4871	0.758	0.5129
10	0.8065	0.4908	0.9677	0.4963	0.8548	0.4889	0.7742	0.5166
11	0.7742	0.4280	0.9354	0.5036	0.9677	0.5092	0.8225	0.5258
12	0.8548	0.4004	0.9516	0.4926	0.9677	0.5221	0.7581	0.5055
13	0.8387	0.4373	0.9677	0.4667	0.9516	0.5055	0.8225	0.5129
14	0.8548	0.3856	0.9354	0.4741	0.9355	0.4797	0.8064	0.5221
15	0.7742	0.4188	0.9354	0.4668	0.9884	0.4911	0.7903	0.5147
16	0.8065	0.4742	0.9677	0.4907	0.9261	0.5127	0.8064	0.4667
17	0.8065	0.4022	0.9677	0.5011	0.9713	0.4786	0.7419	0.5073
18	0.7903	0.4483	0.9516	0.4631	0.9119	0.5021	0.7994	0.5169
19	0.7581	0.4410	0.9677	0.4631	0.9351	0.5004	0.7733	0.5247
20	0.8387	0.4262	0.9677	0.4779	0.9677	0.4916	0.8211	0.5143
	0.8113	**0.4416**	**0.938715**	**0.48213**	**0.947905**	**0.496235**	**0.78579**	**0.506825**
	0.03187377596	**0.03671674524**	**0.04102511779**	**0.01545087632**	**0.0314512233**	**0.01327955591**	**0.0306170386**	**0.01685379467**
	-0.0008	**0.0110**	**0.1274**	**0.0405**	**0.1366**	**0.0546**	**-0.0255**	**0.0652**
			Pretrain Pval:	0.00005363	Pretrain w/ SWAD PVal	0.00000025	SWAD Robust PVal	0.00000001

	Baseline Diff	Pretrain Robust	P-Swad Rob. Diff	RobustSwad Diff
1	0.3470	0.3857	0.3995	0.3175
2	0.3111	0.3646	0.4838	0.2618
3	0.3729	0.3787	0.488	0.294
4	0.2378	0.443	0.4534	0.3027
5	0.3936	0.4733	0.4696	0.3557
6	0.3590	0.5009	0.4553	0.2023
7	0.3595	0.464	0.4405	0.2613
8	0.4536	0.412	0.4668	0.2503
9	0.4088	0.4899	0.4806	0.2451
10	0.3157	0.4714	0.3659	0.2576
11	0.3461	0.4318	0.4585	0.2967
12	0.4545	0.459	0.4456	0.2526
13	0.4014	0.501	0.4461	0.3096
14	0.4692	0.4613	0.4558	0.2843
15	0.3554	0.4686	0.4973	0.2756
16	0.3323	0.477	0.4134	0.3397
17	0.4042	0.4666	0.4927	0.2346
18	0.3420	0.4885	0.4098	0.2825
19	0.3171	0.5046	0.4347	0.2486
20	0.4125	0.4898	0.4761	0.3068
	0.3697	0.456585	0.45167	0.278965
	0.0564087072	0.04171057262	0.03399560498	0.03729402767
	-0.0118	-0.0869	-0.0820	0.0907