Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy	F1 score:	Loss	Recall
#1	28008	91	44	93	7652	FALSE	97.65926	0.972455	2.340743	0.976593
#2	27977	100	30	149	9585	TRUE	97.62821	0.973909	2.371787	0.976282
#3	29634	71	20	29	3839	FALSE	97.53508	0.973741	2.46492	0.975351
#4	22164	92	51	57	2586	TRUE	97.49783	0.972012	2.502173	0.974978
#2	25455	73	29	92	7405	TRUE	97.48541	0.971149	2.514591	0.974854
9#	18878	99	143	75	3703	FALSE	97.44195	0.969476	2.558053	0.974419
2#	26441	68	17	170	2023	FALSE	97.42332	0.972597	2.576679	0.974233
8#	29922	86	218	62	6011	FALSE	97.37365	0.969217	2.62635	0.973736
6#	15555	86	59	23	6287	FALSE	97.3364	0.969617	2.663604	0.973364
#10	19379	93	129	102	7196	FALSE	97.33019	0.968828	2.669812	0.973302
#11	20062	75	69	83	3408	FALSE	97.29914	0.969248	2.700857	0.972991
#12	29362	46	83	174	4499	FALSE	97.28673	0.968398	2.713275	0.972867
#13	17206	78	125	33	1903	TRUE	97.26189	0.970062	2.73811	0.972619
#14	27772	93	395	14	3193	TRUE	97.26189	0.96985	2.73811	0.972619
#15	28393	100	193	180	3088	TRUE	97.25568	0.967551	2.744319	0.972557
#16	22656	88	187	65	828	FALSE	97.24947	0.968842	2.750528	0.972495
#17	29556	22	289	63	1997	TRUE	97.18117	0.968175	2.818825	0.971812
#18	27057	62	293	20	5237	FALSE	97.15634	0.966705	2.843661	0.971563
#19	25076	94	269	121	3367	FALSE	97.13771	0.966742	2.862287	0.971377
#50	29367	92	352	39	1265	TRUE	97.11909	0.967446	2.880914	0.971191
#21	22605	69	396	43	2905	FALSE	97.10667	0.965995	2.893332	0.971067
#25	24490	20	379	30	1312	FALSE	97.08804	0.966091	2.911958	0.97088
#23	27855	50	39	37	165	TRUE	97.08804	0.967057	2.911958	0.97088
#24	26771	61	242	73	1350	TRUE	97.08183	0.966038	2.918167	0.970818
#25	27456	65	206	10	0228	FALSE	97.07562	0.966238	2.924376	0.970756
#56	26900	53	247	88	4570	TRUE	97.03216	0.965559	2.967838	0.970322
#27	23607	36	316	36	2230	TRUE	97.01354	0.96646	2.986465	0.970135
#28	29100	19	21	46	2317	FALSE	97.00112	0.965675	2.998882	0.970011
#58	27670	62	260	169	5114	FALSE	96.9204	0.964353	3.079598	0.969204
#30	18102	52	231	13	2594	FALSE	86206.96	0.966034	3.092015	80696.0
#31	18914	79	264	48	3679	FALSE	96.89557	0.963637	3.104433	0.968956
#32	28724	51	325	132	222	FALSE	96.87694	0.964205	3.12306	0.968769
#33	26319	94	186	41	7214	TRUE	96.86452	0.963922	3.135477	0.968645
#34	18075	02	725	19	1786	FALSE	96.8521	0.963496	3.147895	0.968521

96.4299	96.4299 96.29331 96.04495 95.77797 94.87148	96.4299 96.29331 96.04495 95.77797 94.87148 94.69763 92.91568 92.91568	96.4299 96.29331 96.04495 95.77797 94.87148 94.69763 92.91568 92.69837 92.69837 92.6899 89.43872	96.4299 96.04495 96.04495 95.77797 94.87148 94.69763 92.91568 92.91568 92.69837 92.69837 92.6899 88.6882 88.6882	96.4299 96.29331 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.6882 88.66882 86.72544 86.72544	96.4299 96.04495 95.04495 94.87148 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 89.43872 88.66882 86.6944 86.72544 86.72544	96.4299 96.29331 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 89.43872 88.66882 86.72544 86.6944 86.6944 84.93108 84.0321 80.46691	96.4299 96.29331 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 89.43872 88.66882 86.72544 86.72544 86.944 86.944 86.944 86.944 86.944 86.944 86.944	96.4299 96.04495 96.04495 94.87148 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 89.43872 88.66882 86.6944 84.93108 84.93108 84.93108 87.7544 86.72544 86.6944 87.72544	96.4299 96.29331 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 86.72544 86.72544 86.6944 84.04321 86.6944 84.04321 80.46691 77.44319 76.15174	96.4299 96.29331 96.04495 96.04495 92.01568 92.69837 92.69837 92.69837 92.69837 92.69837 89.43872 86.6944 86.6944 86.6944 86.6944 86.93108 84.93108 84.93108 77.44319 77.44319 76.15174	96.4299 96.29331 96.04495 95.77797 94.69763 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 86.72544 86.72544 86.944 86.944 86.944 86.944 86.944 86.6917 77.44319 76.15174 77.44319 76.15174 77.44319	96.4299 96.29331 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 86.72544 86.6944 86.0944 86.0944 86.0944 86.0944 86.0944 86.0917 77.44319 77.44319 76.15174 76.15174 76.15174 76.15174	96.4299 96.29331 96.04495 96.04495 95.77797 94.69763 92.91568 92.69837 92.55557 92.69837 92.55557 92.69837 86.6944 86.6944 86.6944 86.6944 86.6944 87.724319 77.44319 77.44319 77.44319 77.44319 77.44319 77.44319 77.44319 77.44319 77.44319	96.4299 96.29331 96.04495 96.04495 94.69763 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 86.6944 84.04321 86.6944 84.04321 86.6944 84.04321 77.44319 77.44319 77.43884 71.37713 68.25407 67.65802	96.4299 96.29331 96.04495 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 86.6944 86.6944 86.6944 86.6944 86.6944 87.744319 77.44319 77.44319 77.44319 77.43884 71.37713 68.25407 66.92537 66.92537	96.4299 96.29331 96.04495 94.29331 94.69763 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 86.72544 86.72544 86.6944 86.72544 86.6944 86.03108 84.04321 77.44319 76.15174 77.44319 76.15174 77.44319 76.15174	96.4299 96.29331 96.04495 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.43872 88.66882 88.404321 80.46691 77.44319 77.44319 76.15174 77.44319 76.15174 76.15174 66.92537 66.92537 66.92537 66.92537	96.4299 96.29331 96.04495 96.04495 95.77797 94.69763 92.91568 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.69837 92.43872 88.66944 86.6944 86.6944 86.6944 86.6944 86.6944 86.6944 87.744319 77.44319 77.44319 77.44319 76.15174 77.44319 68.25407 67.65802 66.92537 66.77015 66.226139
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Recall	0.622749	0.592574	0.545449	0.504222	0.480318	0.478704	0.406184	0.379051	0.366509	0.355706	0.132
Loss	37.72507	40.74258	45.45511	49.5778	51.96821	52.12964	59.3816	62.09487	63.34906	64.42941	86.79995
F1 score: Loss	0.647102	0.598463	0.541548	0.523001	0.5228	0.467053	0.480552	0.388902	0.371645	0.398953	0.187566
Accuracy	62.27493	59.25742	54.54489	50.4222	48.03179	47.87036	40.6184	37.90513	36.65094	35.57059	13.20005
Weighted_Clauses	TRUE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	FALSE
Threshold	2908	267	5310	1966	7389	6590	5781	4168	7062	1119	7805
Max_literals	193	124	29	205	96	157	208	167	239	2.2	221
Forget_rate	4748	8388	9223	8203	8134	6943	7198	9820	7041	3904	5956
Epochs	95	48	64	95	33	34	89	20	34	11	12
Clauses	13752	21026	2291	11656	5846	11780	5121	3390	2252	2098	1768
Run	69#	#20	#71	#72	#73	#74	#75	92#	#22	#28	#26

Table 1: Results from the sweep on CICIDS-2017

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	Loss	F1 score:	Recall
#1	49883	65	20	25	12289	TRUE	99.87122	0.128783	0.999033	0.998712
#2	19005	29	24	6	43811	TRUE	99.80683	0.193175	990866.0	0.998068
#3	31078	51	5	39	13756	TRUE	99.74243	0.257566	990866.0	0.997424
#4	45747	74	88	14	33817	TRUE	99.74243	0.257566	0.997743	0.997424
#2	46718	29	22	33	22668	TRUE	99.74243	0.257566	0.998386	0.997424
9#	24184	64	12	13	43198	FALSE	99.74243	0.257566	990866.0	0.997424
2#	43332	50	85	6	24583	FALSE	99.67804	0.321958	0.997421	0.99678
8#	46086	64	25	29	14505	TRUE	99.67804	0.321958	0.997422	0.99678
6#	28209	74	210	10	18708	TRUE	99.67804	0.321958	0.996782	0.99678
#10	48282	63	44	10	5913	TRUE	99.67804	0.321958	0.997424	0.99678
#11	24830	63	45	10	4532	TRUE	99.67804	0.321958	960266.0	0.99678
#12	27124	49	26	12	15210	FALSE	99.67804	0.321958	960266.0	0.99678
#13	48780	89	13	31	21048	TRUE	99.61365	0.386349	0.996456	0.996137
#14	39279	69	35	34	41858	TRUE	99.61365	0.386349	0.996454	0.996137
#15	38533	72	113	6	14489	TRUE	99.61365	0.386349	0.996456	0.996137
#16	42787	42	21	11	20109	TRUE	99.61365	0.386349	0.997092	0.996137
#17	29826	63	26	26	1223	TRUE	99.61365	0.386349	0.996136	0.996137
#18	47465	54	18	22	32719	TRUE	99.61365	0.386349	0.996769	0.996137
#19	30296	18	10	21	2501	FALSE	99.61365	0.386349	0.996459	0.996137
#20	35700	48	147	17	9644	TRUE	99.61365	0.386349	0.997417	0.996137
#21	24184	71	48	30	11990	TRUE	99.61365	0.386349	0.996133	0.996137
#22	41682	73	15	30	4347	TRUE	99.61365	0.386349	0.996448	0.996137
#23	36066	64	12	35	41318	TRUE	99.61365	0.386349	0.996777	0.996137
#24	44919	73	300	∞	7346	TRUE	99.61365	0.386349	0.996459	0.996137
#25	45121	57	24	29	49077	TRUE	99.61365	0.386349	0.997098	0.996137
#26	27896	61	25	48	1701	FALSE	99.61365	0.386349	0.996773	0.996137
#27	24571	99	30	43	29255	TRUE	99.54926	0.450741	0.995808	0.995493
#28	15141	89	75	28	469	TRUE	99.54926	0.450741	0.99709	0.995493
#29	43350	20	57	21	1139	TRUE	99.54926	0.450741	0.996771	0.995493
#30	33704	74	11	13	33800	FALSE	99.54926	0.450741	0.997417	0.995493
#31	48411	69	105	14	39276	TRUE	99.54926	0.450741	0.996118	0.995493
#32	23806	65	5	46	1687	TRUE	99.54926	0.450741	0.996767	0.995493
#33	20863	51	20	47	13772	TRUE	99.54926	0.450741	0.99611	0.995493
#34	44423	55	12	42	2929	TRUE	99.54926	0.450741	0.995821	0.995493

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	Loss	F1 score:	Recall
	42735	09	187	18	39981	TRUE	99.54926	0.450741	0.996129	0.995493
	20337	35	19	22	1266	FALSE	99.54926	0.450741	0.996127	0.995493
#37	13566	89	2	28	25459	FALSE	99.54926	0.450741	0.995802	0.995493
#38	24145	75	35	49	3806	TRUE	99.54926	0.450741	0.996133	0.995493
#39	33922	75	64	16	31990	FALSE	99.54926	0.450741	0.99645	0.995493
#40	41188	63	16	30	23444	TRUE	99.54926	0.450741	0.996136	0.995493
#41	45632	61	92	22	45497	TRUE	99.54926	0.450741	0.997086	0.995493
#42	18833	73	9	26	8226	TRUE	99.54926	0.450741	0.995806	0.995493
#43	42796	65	85	23	1195	TRUE	99.48487	0.515132	860966.0	0.994849
#44	36389	74	2	35	43164	TRUE	99.48487	0.515132	0.995162	0.994849
#45	40021	09	26	12	28804	TRUE	99.48487	0.515132	0.995184	0.994849
#46	27713	17	2	19	11163	FALSE	99.48487	0.515132	0.995488	0.994849
#47	15422	71	13	12	46604	TRUE	99.48487	0.515132	0.994831	0.994849
#48	49942	40	19	41	5198	TRUE	99.48487	0.515132	0.996437	0.994849
#49	42205	64	26	19	37218	TRUE	99.48487	0.515132	0.995164	0.994849
	9501	49	35	26	3105	FALSE	99.48487	0.515132	0.995468	0.994849
	37031	75	129	6	19149	TRUE	99.48487	0.515132	0.995475	0.994849
#52	41171	53	22	63	22526	FALSE	99.48487	0.515132	0.995481	0.994849
	38555	29	37	23	14610	TRUE	99.42048	0.579524	0.994533	0.994205
	40967	65	8	∞	32809	TRUE	99.42048	0.579524	0.994822	0.994205
	46208	73	45	26	47251	FALSE	99.42048	0.579524	0.994191	0.994205
	33945	58	52	43	37011	TRUE	99.42048	0.579524	0.99452	0.994205
	8080	63	11	27	13202	TRUE	99.42048	0.579524	0.994524	0.994205
#28	23690	70	140	30	6913	TRUE	99.42048	0.579524	0.994845	0.994205
, 65#	42705	75	22	28	26540	FALSE	99.42048	0.579524	0.99612	0.994205
: 09#	32073	73	16	21	16655	TRUE	99.42048	0.579524	0.994512	0.994205
	44460	61	5	29	14319	TRUE	99.42048	0.579524	0.994516	0.994205
#62	13770	29	34	14	27504	FALSE	99.42048	0.579524	0.995158	0.994205
#63	29351	54	33	15	10152	FALSE	99.42048	0.579524	0.995158	0.994205
#64	49732	73	139	15	47556	FALSE	99.42048	0.579524	0.994518	0.994205
, 99#	41739	56	32	54	34794	TRUE	99.42048	0.579524	0.994841	0.994205
	31207	46	28	95	1111	FALSE	99.42048	0.579524	0.994847	0.994205
	38265	69	32	38	28094	TRUE	99.42048	0.579524	0.99517	0.994205
, 89#	45818	31	5	48	1259	FALSE	99.42048	0.579524	0.994843	0.994205

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	Loss	F1 score:	Recall
69#	16402	69	26	12	3909	TRUE	99.42048	0.579524	0.995139	0.994205
#20	35655	64	99	49	7537	TRUE	99.42048	0.579524	0.995487	0.994205
#71	47634	54	28	35	47330	TRUE	99.42048	0.579524	0.99485	0.994205
#72	16110	73	130	20	34035	TRUE	99.42048	0.579524	0.994839	0.994205
#73	25865	89	18	25	3930	TRUE	99.42048	0.579524	0.995152	0.994205
#74	2862	75	22	34	46115	TRUE	99.42048	0.579524	0.995149	0.994205
#42	14362	74	80	25	25832	TRUE	99.42048	0.579524	0.994204	0.994205
92#	23522	69	23	51	3817	FALSE	99.42048	0.579524	0.994524	0.994205
#22	4874	72	59	13	2402	FALSE	99.42048	0.579524	0.994175	0.994205
#78	43023	61	157	30	13190	TRUE	99.35608	0.643915	0.994193	0.993561
#79	23296	48	69	12	9732	TRUE	99.35608	0.643915	0.994516	0.993561
#80	2928	89	29	50	1274	FALSE	99.35608	0.643915	0.995143	0.993561
#81	17461	89	25	6	32235	TRUE	99.35608	0.643915	0.994818	0.993561
#85	16989	75	52	16	17407	TRUE	99.35608	0.643915	0.994186	0.993561
#83	16558	65	14	18	7545	TRUE	99.35608	0.643915	0.994203	0.993561
#84	47448	39	62	26	271111	TRUE	99.35608	0.643915	0.993885	0.993561
#85	39494	74	131	29	7267	TRUE	99.35608	0.643915	0.99388	0.993561
98#	41066	69	108	12	8649	TRUE	99.35608	0.643915	0.994192	0.993561
#87	37363	48	20	56	23658	FALSE	99.35608	0.643915	0.995164	0.993561
#88	39251	45	20	20	28110	FALSE	99.35608	0.643915	0.995149	0.993561
68#	37956	56	131	17	8814	TRUE	99.35608	0.643915	0.994216	0.993561
06#	13092	20	13	11	7361	TRUE	99.35608	0.643915	0.994837	0.993561
#91	31631	74	91	40	13009	TRUE	99.35608	0.643915	0.993557	0.993561
#95	37617	62	65	23	6155	TRUE	80932608	0.643915	0.995481	0.993561
#63	62767	41	34	25	15984	TRUE	99.35608	0.643915	0.994522	0.993561
#94	27835	29	158	16	29687	TRUE	99.35608	0.643915	0.994195	0.993561
#62	24846	55	104	18	4552	TRUE	99.35608	0.643915	0.994828	0.993561
96#	44773	74	36	46	48097	TRUE	99.35608	0.643915	0.993869	0.993561
46#	42922	51	32	35	24762	TRUE	80.35608	0.643915	0.994522	0.993561
86#	17978	73	23	81	20991	TRUE	99.35608	0.643915	0.99517	0.993561
66#	40912	75	21	55	32084	TRUE	99.35608	0.643915	0.994203	0.993561
#100	37574	72	172	11	25434	FALSE	99.35608	0.643915	0.994201	0.993561

Table 2: Sweep table results

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	Loss	F1 score	Recall
#1	2183	20	115	10	49662	FALSE	85.55922	14.44078	0.803969	0.855592
#2	1440	18	70	13	48130	FALSE	85.28254	14.71746	0.801377	0.852825
#3	9341	44	82	11	46233	TRUE	85.20805	14.79195	0.800913	0.85208
#4	3703	26	208	8	8789	TRUE	85.19208	14.80792	0.800792	0.851921
#2	4700	10	73	11	47655	FALSE	85.1708	14.8292	0.800286	0.851708
9#	4756	56	47	23	48567	FALSE	85.13887	14.86113	0.800549	0.851389
2#	21537	26	239	13	34971	TRUE	85.13887	14.86113	0.80022	0.851389
8#	5409	22	99	21	33799	TRUE	85.11759	14.88241	0.800219	0.851176
6#	5212	52	95	12	40357	TRUE	85.10695	14.89305	0.799922	0.851069
#10	9277	23	110	13	40650	FALSE	85.08567	14.91433	0.799509	0.850857
#11	7331	14	46	21	49342	FALSE	85.05374	14.94626	0.799273	0.850537
#12	21064	09	54	27	48564	TRUE	85.04842	14.95158	0.799667	0.850484
#13	7633	26	33	21	47381	TRUE	85.02714	14.97286	0.799128	0.850271
#14	13835	20	133	~	49159	TRUE	85.01649	14.98351	0.799132	0.850165
#15	25550	27	152	41	29848	FALSE	85.00585	14.99415	0.799053	0.850059
#16	34817	39	62	20	47165	FALSE	84.97925	15.02075	0.798736	0.849792
#17	22362	59	223	6	49654	FALSE	84.96861	15.03139	0.798446	0.849686
#18	29634	32	81	19	37313	FALSE	84.96329	15.03671	0.798702	0.849633
#19	16219	32	25	15	45837	FALSE	84.95797	15.04203	0.798366	0.84958
#20	2414	5	65	33	43097	FALSE	84.93136	15.06864	0.796775	0.849314
#21	22479	59	131	44	38596	TRUE	84.92604	15.07396	0.798257	0.84926
#25	8573	41	102	11	49296	FALSE	84.88347	15.11653	0.797511	0.848835
#23	14335	18	27	38	47879	FALSE	84.87283	15.12717	0.797782	0.848728
#24	5437	26	42	10	41939	FALSE	84.86751	15.13249	0.797254	0.848675
#25	8123	41	113	13	46326	TRUE	84.86219	15.13781	0.797421	0.848622
#56	24909	23	18	18	38196	FALSE	84.85687	15.14313	0.797757	0.848569
#27	30574	36	50	39	39554	FALSE	84.84091	15.15909	0.797417	0.848409
#28	22556	33	38	35	49184	TRUE	84.83559	15.16441	0.797445	0.848356
#28	9869	28	40	8	19135	TRUE	84.82494	15.17506	0.797338	0.848249
#30	1683	09	242	11	37021	FALSE	84.81962	15.18038	0.796563	0.848196
#31	46376	21	50	6	41094	TRUE	84.81962	15.18038	0.797333	0.848196
#32	3845	54	178	14	28020	TRUE	84.81962	15.18038	0.79694	0.848196
#33	39011	46	65	44	40946	FALSE	84.80898	15.19102	0.797078	0.84809
#34	49382	11	28	19	47783	TRUE	84.80366	15.19634	0.796965	0.848037

Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	$\Gamma$ oss	F1 score	Recall
12018	22	47	32	48855	TRUE	84.80366	15.19634	0.797027	0.848037
22793	53	358	12	44669	TRUE	84.79834	15.20166	0.796788	0.847983
23196	58	59	25	42749	TRUE	84.77174	15.22826	0.796825	0.847717
13142	48	19	6	49229	FALSE	84.76109	15.23891	0.796037	0.847611
32166	09	114	6	48811	TRUE	84.75045	15.24955	0.796486	0.847505
30314	09	93	17	36035	TRUE	84.75045	15.24955	0.796613	0.847505
38997	55	472	53	49697	TRUE	84.74513	15.25487	0.79629	0.847451
4151	20	25	20	42635	FALSE	84.74513	15.25487	0.796047	0.847451
9142	19	40	40	40851	FALSE	84.73981	15.26019	0.796471	0.847398
19702	20	168	14	40267	TRUE	84.72385	15.27615	90962.0	0.847238
41794	43	100	28	42759	FALSE	84.71853	15.28147	0.796245	0.847185
44255	15	134	20	46210	TRUE	84.70256	15.29744	0.795821	0.847026
45535	48	174	14	21524	TRUE	84.69724	15.30276	0.79611	0.846972
46653	50	413	33	44093	TRUE	84.6866	15.3134	0.795676	0.846866
24448	20	160	14	31998	FALSE	84.67064	15.32936	0.795356	0.846706
49804	25	35	13	28976	TRUE	84.67064	15.32936	0.795599	0.846706
34140	40	334	17	45690	TRUE	84.66532	15.33468	0.795277	0.846653
27215	59	101	17	30239	FALSE	84.66	15.34	0.795439	0.8466
39673	34	36	11	49459	FALSE	84.64936	15.35064	0.795146	0.846494
42439	44	428	23	43948	TRUE	84.61211	15.38789	0.794683	0.846121
30132	33	126	37	39436	FALSE	84.60679	15.39321	0.795444	0.846068
40301	50	49	∞	43280	TRUE	84.60147	15.39853	0.794878	0.846015
6344	22	345	12	48776	TRUE	84.56422	15.43578	0.794206	0.845642
18410	36	86	33	39410	FALSE	84.56422	15.43578	0.794787	0.845642
12599	28	15	13	41572	FALSE	84.54826	15.45174	0.793875	0.845483
2279	54	157	10	17933	TRUE	84.54294	15.45706	0.793911	0.845429
18007	26	154	15	40121	FALSE	84.5323	15.4677	0.793894	0.845323
20252	25	233	30	46632	FALSE	84.52166	15.47834	0.79373	0.845217
19589	47	22	6	43751	TRUE	84.51634	15.48366	0.793347	0.845163
31091	46	75	49	29871	FALSE	84.49505	15.50495	0.793981	0.844951
38257	59	345	51	49653	TRUE	84.49505	15.50495	0.793792	0.844951
39267	39	44	12	42185	TRUE	84.48441	15.51559	0.793646	0.844844
3259	20	243	15	20432	TRUE	84.48441	15.51559	0.793245	0.844844
23328	34	117	48	33978	FALSE	84.46313	15.53687	0.793453	0.844631

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	Loss	F1 score	Recall
69#	19788	10	12	30	49605	TRUE	84.45248	15.54752	0.79288	0.844525
#20	14995	59	23	19	44270	TRUE	84.45248	15.54752	0.792891	0.844525
#71	25889	37	114	27	38536	FALSE	84.45248	15.54752	0.793306	0.844525
#72	40773	40	289	15	43456	TRUE	84.44184	15.55816	0.792871	0.844418
#73	2728	59	199	48	14642	TRUE	84.4046	15.5954	0.792851	0.844046
#74	22845	23	135	42	24886	FALSE	84.39928	15.60072	0.792975	0.843993
#75	44913	6	8	11	23586	TRUE	84.37799	15.62201	0.791993	0.84378
92#	9629	22	358	14	905	TRUE	84.36203	15.63797	0.792606	0.84362
#22	3910	17	125	29	46894	TRUE	84.34075	15.65925	0.791768	0.843407
#78	47514	45	463	12	37523	TRUE	84.32478	15.67522	0.791632	0.843248
#26	32678	20	130	54	38507	FALSE	84.31414	15.68586	0.791712	0.843141
#80	42659	99	40	53	48790	TRUE	84.23965	15.76035	0.791183	0.842397
#81	5734	18	17	53	47092	FALSE	84.22901	15.77099	0.791005	0.84229
#85	30410	31	143	73	36424	FALSE	84.20773	15.79227	0.790901	0.842077
#83	5417	99	29	55	12335	TRUE	84.19176	15.80824	0.791069	0.841918
#84	46756	30	53	59	47368	TRUE	84.18112	15.81888	0.790516	0.841811
#85	15191	58	248	22	27959	TRUE	84.1758	15.8242	0.790192	0.841758
98#	26922	13	456	46	33197	TRUE	84.11195	15.88805	0.788879	0.84112
482	33662	31	146	47	22679	$\operatorname{FALSE}$	84.10663	15.89337	0.789865	0.841066
#88	36704	56	23	99	43921	FALSE	84.10131	15.89869	0.789529	0.841013
68#	13175	8	163	44	46337	FALSE	84.08003	15.91997	0.788494	0.8408
06#	40387	50	495	73	45977	TRUE	84.0747	15.9253	0.788563	0.840747
#91	39490	34	30	94	47007	$\operatorname{FALSE}$	84.0481	15.9519	0.789289	0.840481
#95	33553	26	311	54	23999	TRUE	84.02682	15.97318	0.789412	0.840268
#63	44187	25	335	21	49092	TRUE	83.98425	16.01575	0.788006	0.839843
#94	22499	17	476	22	32337	TRUE	83.92572	16.07428	0.786709	0.839257
#62	22849	27	311	30	26296	FALSE	83.84059	16.15941	0.78628	0.838406
96#	1706	51	82	82	47735	FALSE	83.72885	16.27115	0.785836	0.837288
26#	13874	09	73	17	74	TRUE	83.70225	16.29775	0.789943	0.837022
86#	9505	34	57	85	44267	TRUE	83.68096	16.31904	0.785778	0.83681
66#	49448	14	284	181	21634	FALSE	82.94669	17.05331	0.772306	0.829467
#100	2821	5	492	255	6274	TRUE	77.57795	22.42205	0.735649	0.77578
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Table 3: Results from hyperparameter Sweep on NSL-KDD dataset

			_	_	_			1	_							_	_			_	_	_	_	_	_		_							
Recall	1	1	T	1	1	1	1	1	1	1	1	1	1	1	1	П	1	1	1	0.999909	0.999909	0.999909	0.999909	0.999909	0.999909	0.999909	606666.0	0.999909	0.999909	0.999909	0.999909	606666.0	0.999909	0.999909
F1 score:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Ţ	1	1	806666.0	806666.0	0.999909	0.999909	806666.0	0.999909	0.999909	806666.0	806666.0	806666.0	806666.0	806666.0	806666.0	0.99991	806666.0
Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118	0.009118
Accuracy (%)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	88066.66	88066.66	88066.66	88066.66	88066.66	88066.66	99.99088	88066.66	88066.66	88066.66	88066.66	88066.66	88066.66	88066.66	88066.66
Weighted_Clauses	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE												
Threshold	3962	4291	2188	2332	4935	2269	1102	4854	2595	1037	4128	2113	1672	2009	829	1144	354	558	818	971	4869	1828	1483	1473	2068	2190	4321	446	4587	2529	1090	1421	4843	2465
Max_literals	13	6	11	12	17	12	18	6	8	17	10	6	11	46	18	∞	24	28	8	∞	11	∞	$\infty$	13	22	13	27	15	16	10	15	17	19	10
Forget_rate	24	55	40	10	94	82	189	142	21	184	141	73	16	88	10	132	52	99	228	29	82	48	203	30	169	54	10	280	186	16	22	159	41	106
Epochs	73	85	28	59	98	43	71	69	28	91	94	74	34	49	52	09	56	44	92	63	69	39	59	45	09	78	80	06	80	39	44	92	93	56
Clauses	32288	42252	34273	33440	39941	33794	48630	49603	42009	36982	46273	45590	43385	35093	48847	40440	20793	35505	40822	10527	48452	47007	49384	46441	44380	34857	33110	36230	40057	38814	40902	34261	37306	34516
Run	#1	#2	#3	#4	#2	9#	2#	*8#	6#	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	#21	#25	#23	#24	#25	#26	#27	#28	#29	#30	#31	#32	#33	#34

35015 43600		I OI BOUT AND		THESHOID	Weighted_Clauses	Accuracy (70)	LOSS	FI score:	Recall
00	55	33	10	3021	TRUE	88066.66	0.009118	806666.0	0.999909
	38	72	24	1681	TRUE	88066.66	0.009118	806666.0	0.999909
42042	100	7	11	1977	TRUE	88066.66	0.009118	0.999908	0.999909
30241	92	173	12	382	TRUE	88066.66	0.009118	806666.0	0.999909
46438	47	14	36	2805	TRUE	88066.66	0.009118	0.999909	0.999909
41102	56	132	23	2143	TRUE	88066.66	0.009118	806666.0	0.999909
44810	83	218	11	826	TRUE	88066.66	0.009118	806666.0	0.999909
48245	51	82	28	658	TRUE	88066.66	0.009118	806666.0	0.999909
42213	22	257	18	175	TRUE	88066.66	0.009118	0.999909	0.999909
44415	85	12	32	695	TRUE	88066.66	0.009118	0.999909	0.999909
2223	26	09	20	525	FALSE	99.98176	0.018237	0.999814	0.999818
18043	26	52	91	2786	TRUE	99.98176	0.018237	0.999817	0.999818
22910	64	22	21	1991	FALSE	99.98176	0.018237	0.999814	0.999818
44874	68	71	20	4331	FALSE	99.98176	0.018237	0.999817	0.999818
44564	95	155	16	845	TRUE	99.98176	0.018237	0.999817	0.999818
34323	71	118	∞	1343	TRUE	99.98176	0.018237	0.999814	0.999818
29198	39	38	13	3470	TRUE	99.98176	0.018237	0.999817	0.999818
48942	89	308	12	4355	TRUE	99.98176	0.018237	0.999815	0.999818
45186	46	40	6	182	TRUE	99.98176	0.018237	0.999817	0.999818
32710	69	30	24	3289	TRUE	99.98176	0.018237	0.999816	0.999818
33706	43	33	17	683	TRUE	99.98176	0.018237	0.999817	0.999818
49345	31	9	41	130	TRUE	99.98176	0.018237	0.999818	0.999818
32748	44	26	12	2168	FALSE	99.98176	0.018237	0.999814	0.999818
40224	31	9	51	2597	TRUE	99.98176	0.018237	0.999814	0.999818
44720	56	93	47	1589	TRUE	99.98176	0.018237	0.999814	0.999818
49174	30	106	21	753	TRUE	99.98176	0.018237	0.999817	0.999818
42437	64	43	32	1029	$ ext{TRUE}$	99.98176	0.018237	0.999815	0.999818
49356	69	31	6	1657	TRUE	99.98176	0.018237	0.999815	0.999818
46452	29	149	18	359	TRUE	99.98176	0.018237	0.999817	0.999818
36443	99	243	19	1375	TRUE	99.98176	0.018237	0.999818	0.999818
49390	83	6	41	343	TRUE	99.98176	0.018237	0.999814	0.999818
27793	98	92	14	48	TRUE	99.98176	0.018237	0.999818	0.999818
41468	72	55	41	113	TRUE	99.98176	0.018237	0.999817	0.999818
39991	58	183	31	404	TRUE	99.98176	0.018237	0.999818	0.999818

Max_literalsThresholdWeighted_Clauses26815TRUE
1670 TRUE
1619 FALSE
1544  TRUE
1
$\mid 529 \mid  ext{TRUE}$
$\mid 543 \qquad \mid \mathrm{TRUE}$
$\mid 4819 \mid \text{FALSE}$
$\mid 2736 \mid \text{FALSE}$
3615 TRUE
612 TRUE
1878 TRUE
1353 TRUE
2993 TRUE
3124   TRUE
73
52   TRUE
9
131   TRUE
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
260   TRUE
3354   FALSE
593 FALSE
4472 TRUE
701 TRUE
4610 FALSE
4519 TRUE
2875 FALSE

Clauses	Ebochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy (%)	$\Gamma$ oss	F1 score:	Recall
		Table	4: Resul	ts from hyperpara	ameter sweep on the	UNSW-Bot-			
		loT d	lataset						

Run	Clauses	Epochs	Forget_rate	Max_literals	Threshold	Weighted_Clauses	Accuracy	F1 score:	Foss	Recall
#1	44985	41	347	112	1769	FALSE	82.10986	0.817357	17.89014	0.821099
#2	30525	99	481	170	4629	FALSE	81.22101	0.806783	18.77899	0.81221
#3	28107	06	278	133	3711	FALSE	81.94222	0.816793	18.05778	0.819422
#4	17983	69	09	83	5963	TRUE	81.89934	0.82115	18.10066	0.818993
#2	15026	23	126	59	4125	FALSE	81.92273	0.814492	18.07727	0.819227
9#	21247	29	321	144	1879	TRUE	81.9968	0.816739	18.0032	0.819968
2#	33429	09	99	253	4872	TRUE	82.2541	0.82187	17.7459	0.822541
8#	20446	38	37	30	3707	FALSE	82.23461	0.818815	17.76539	0.822346
6#	38518	46	347	199	4863	FALSE	80.81946	0.803873	19.18054	0.808195
#10	22344	42	107	89	3161	FALSE	82.43343	0.81667	17.56657	0.824334
#11	15302	53	133	10	3016	FALSE	82.49581	0.820695	17.50419	0.824958
#12	18231	93	224	155	1865	FALSE	81.87985	0.81325	18.12015	0.818798
#13	40946	41	189	126	4029	FALSE	82.24241	0.816708	17.75759	0.822424
#14	2383	47	23	92	1714	FALSE	82.09037	0.815976	17.90963	0.820904
#15	32756	52	461	153	1986	TRUE	81.42762	0.810679	18.57238	0.814276
#16	45743	8	430	40	1460	TRUE	80.05536	0.791241	19.94464	0.800554
#17	18843	19	188	119	4423	TRUE	81.64594	0.809624	18.35406	0.816459
#18	16325	46	172	53	4266	FALSE	82.17224	0.818207	17.82776	0.821722
#19	30546	74	204	23	3894	TRUE	82.527	0.820177	17.473	0.82527
#50	12792	31	27	17	3470	FALSE	82.35936	0.819247	17.64064	0.823594
#21	22118	54	207	11	3916	FALSE	82.12935	0.817615	17.87065	0.821294
#25	39923	86	345	184	2975	FALSE	82.0007	0.814888	17.9993	0.820007
#23	23689	50	114	70	2325	FALSE	82.23461	0.818945	17.76539	0.822346
#24	42324	22	23	243	1668	FALSE	81.17422	0.811305	18.82578	0.811742
#25	35776	31	17	50	3104	FALSE	81.7434	0.812555	18.2566	0.817434
#56	9696	54	138	14	4277	FALSE	82.39835	0.820622	17.60165	0.823983
#27	17905	64	22	15	8268	FALSE	82.08647	0.815781	17.91353	0.820865
#58	16997	17	47	103	3950	FALSE	82.31648	0.818757	17.68352	0.823165
#56	15497	49	193	70	4568	FALSE	82.60887	0.819861	17.39113	0.826089
#30	38478	61	296	2.2	2461	TRUE	81.62255	0.81189	18.37745	0.816225
#31	44621	26	331	95	2987	TRUE	81.73171	0.812896	18.26829	0.817317
#35	26562	6	10	42	3919	$ ext{FALSE}$	81.70052	0.812942	18.29948	0.817005
#33	8342	59	162	27	3574	$\operatorname{FALSE}$	82.19173	0.815344	17.80827	0.821917
#34	15661	18	123	202	3198	FALSE	81.80968	0.812343	18.19032	0.818097

0.820826	0.816888	0.820085	0.796226	0.814198	0.818214		0.821527	0.81143	0.82258	0.816849	0.824061		0.826245	0.817629	0.812795	0.814627	0.816693		0.827492	0.819383	0.82449	0.819422	0.819968		0.82258	0.819773	0.819773	0.814432	0.817785	0.810183	0.823204	0.812054	0.019659
17.91743	18.31118	17.9915	20.37737	18.58017	18.17863	19.29749	17.84726	18.85696	17.742	18.31508	17.59386	21.57031	17.37554	18.23711	18.72052	18.53729	18.33067	18.10066	17.25079	18.06167	17.55097	18.05778	18.0032	18.68933	17.742	18.02269	18.02269	18.55678	18.22151	18.98172	17.67962	18.79459	18 63/75
0.815959	0.814244	0.816491	0.788766	0.809846	0.813386	0.796039	0.818582	0.810938	0.819931	0.810412	0.822804	0.782542	0.823803	0.812204	0.809106	0.809485	0.809074	0.813854	0.825193	0.814199	0.82076	0.818011	0.815975	0.810009	0.819316	0.822478	0.812231	0.808439	0.812635	0.807501	0.815708	0.802473	0.810095
82.08257	81.68882	82.0085	79.62263	81.41983	81.82137	80.70251	82.15274	81.14304	82.258	81.68492	82.40614	78.42969	82.62446	81.76289	81.27948	81.46271	81.66933	81.89934	82.74921	81.93833	82.44903	81.94222	81.9968	81.31067	82.258	81.97731	81.97731	81.44322	81.77849	81.01828	82.32038	81.20541	81 36595
FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	FALSE	TAT CF							
2033	2364	2076	2341	1446	2641	2175	4893	963	2128	4222	2241	117	1609	4697	1932	4045	4304	4826	3131	4475	4654	4470	4219	4329	4321	3228	2421	2081	827	392	3026	4936	1301
98	192	18	244	239	09	27	141	26	156	65	17	208	31	22	95	30	10	65	35	186	30	39	82	12	71	48	$\infty$	33	75	180	59	33	140
342	92	35	240	146	33	255	91	368	151	347	110	418	176	148	344	244	162	74	132	46	73	128	254	162	29	96	38	233	377	54	80	214	798
93	92	64	12	66	20	6	50	26	38	38	52	51	71	52	22	20	32	43	26	55	54	26	48	38	34	37	37	43	84	19	62	88	7
12333	27397	23122	16783	31235	21981	23849	19092	41624	20069	17902	15778	36748	10756	10405	5859	42156	18077	18137	27035	19277	10969	46926	5924	1903	15342	25875	7593	20248	36004	27107	13745	18347	69201
#35	#36	#37	#38	#39	#40	#41	#42	#43	#44	#45	#46	#47	#48	#49	#20	#51	#52	#53	#54	#22	#26	#24	#28	#26	09#	#61	#62	#63	#64	#65	99#	#67	89#

69#	35770	11	06	56	396	FALSE	80.55047	0.799825	19.44953	0.805505
#20	41373	94	318	181	2787	TRUE	82.13715	0.816769	17.86285	0.821371
#71	7759	27	399	141	2618	TRUE	79.7006	0.789006	20.2994	0.797006
#72	16823	92	176	246	2164	TRUE	81.58746	0.814311	18.41254	0.815875
#73	13445	43	95	25	3580	FALSE	82.38665	0.818766	17.61335	0.823867
#74	44542	100	297	254	4904	FALSE	81.73171	0.814764	18.26829	0.817317
#75	24898	22	214	182	3121	FALSE	81.64984	0.812035	18.35016	0.816498
92#	14126	47	202	109	4074	FALSE	81.96951	0.81624	18.03049	0.819695
#22	22314	15	26	176	2774	FALSE	81.96172	0.813653	18.03828	0.819617
#78	5160	24	453	181	3960	TRUE	78.44918	0.770638	21.55082	0.784492
#79	10127	92	26	37	3485	FALSE	82.18783	0.818519	17.81217	0.821878
#80	34367	30	151	137	3952	FALSE	82.02409	0.815906	17.97591	0.820241
#81	43701	24	157	70	3761	TRUE	81.37694	0.810575	18.62306	0.813769
#85	2874	28	72	206	2679	TRUE	81.51339	0.810594	18.48661	0.815134
#83	1569	33	301	215	399	TRUE	80.23859	0.798057	19.76141	0.802386
#84	16652	85	439	209	4477	FALSE	81.01828	0.803725	18.98172	0.810183
#85	16600	81	82	241	3920	FALSE	82.41004	0.817109	17.58996	0.8241
98#	14414	75	445	225	826	TRUE	81.39644	0.808327	18.60356	0.813964
#87	20764	23	38	52	3400	FALSE	82.70243	0.82441	17.29757	0.827024
88#	8011	17	18	201	4801	TRUE	82.22292	0.814569	17.77708	0.822229
68#	17971	43	106	21	3202	FALSE	82.35936	0.81893	17.64064	0.823594
06#	1840	24	348	228	2318	FALSE	77.29913	0.759034	22.70087	0.772991
#91	17400	61	65	33	47	TRUE	77.20947	0.767337	22.79053	0.772095
#95	36813	72	418	51	1722	TRUE	81.82137	0.815118	18.17863	0.818214
#63	20026	34	30	92	3213	FALSE	82.03969	0.816276	17.96031	0.820397
#94	22413	52	124	31	3224	FALSE	82.10206	0.820402	17.89794	0.821021
#62	683	58	115	227	4072	FALSE	82.07477	0.81735	17.92523	0.820748
96#	1880	92	256	86	345	FALSE	81.17032	0.805908	18.82968	0.811703

Table 5: Results from Sweeping over the UNSW-NB15 dataset