

Table 1: AUC on individual datasets

	Dataset	EntropyAE	VanillaAE	Improvement
1	ALOI	0.567	0.552	0.015
2	annthyroid	0.691	0.725	-0.034
3	backdoor	0.910	0.910	0.000
4	breastw	0.928	0.891	0.037
5	campaign	0.738	0.747	-0.009
6	cardio	0.949	0.802	0.148
7	Cardiotocography	0.683	0.542	0.140
8	celeba	0.784	0.792	-0.008
9	census	0.677	0.682	-0.006
10	cover	0.898	0.896	0.002
11	donors	0.726	0.801	-0.075
12	fault	0.616	0.654	-0.038
13	fraud	0.951	0.949	0.002
14	glass	0.707	0.788	-0.081
15	Hepatitis	0.747	0.651	0.096
16	http	0.995	0.991	0.005
17	InternetAds	0.615	0.564	0.051
18	Ionosphere	0.927	0.918	0.008
19	landsat	0.543	0.484	0.059
20	letter	0.846	0.871	-0.025
21	Lymphography	0.996	0.972	0.025
22	magic	0.667	0.754	-0.086
23	mammography	0.866	0.775	0.091
24	mnist	0.842	0.819	0.023
25	musk	0.998	0.994	0.004
26	optdigits	0.531	0.445	0.086
27	PageBlocks	0.915	0.893	0.021
28	pendigits	0.819	0.801	0.018
29	Pima	0.640	0.594	0.046
30	satellite	0.624	0.638	-0.014
31	satimage-2	0.971	0.952	0.019
32	shuttle	0.987	0.935	0.053
33	skin	0.691	0.503	0.188
34	smtp	0.887	0.905	-0.018
35	SpamBase	0.550	0.528	0.022
36	speech	0.477	0.497	-0.020
37	Stamps	0.905	0.775	0.129
38	thyroid	0.934	0.913	0.021
39	vertebral	0.385	0.461	-0.076
40	vowels	0.878	0.872	0.007
41	Waveform	0.638	0.622	0.016
42	WBC	0.993	0.948	0.045
43	WDBC	0.986	0.930	0.056
44	Wilt	0.769	0.659	0.109
45	wine	0.807	0.608	0.199
46	WPBC	0.481	0.494	-0.013
47	yeast	0.401	0.431	-0.030