

Table 1: MAD and quartiles of the absolute difference between $\hat{L}_S + \epsilon$ and $\hat{L}_T + \epsilon_T$ (DecisionTreeClassifier, ZeroOneLoss (weight=uniform) and $\delta = 0.05$)

data set	method	MAD	Q_1	Q_2	Q_3
optdigits	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.2193 ± 0.2193	0.1325	0.2217	0.301
optdigits	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1967 ± 0.1967	0.11	0.1812	0.2752
optdigits	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.2306 ± 0.2306	0.1368	0.2351	0.3197
optdigits	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.138 ± 0.138	0.0829	0.131	0.1867
optdigits	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.2939 ± 0.2939	0.172	0.3019	0.4091
optdigits	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1254 ± 0.1254	0.0799	0.1249	0.1679
satimage	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.1755 ± 0.1755	0.1138	0.1702	0.2263
satimage	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1724 ± 0.1724	0.103	0.1563	0.2305
satimage	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.2013 ± 0.2013	0.1318	0.1954	0.2647
satimage	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.1482 ± 0.1482	0.0924	0.1352	0.191
satimage	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.2665 ± 0.2665	0.1751	0.2585	0.3464
satimage	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1228 ± 0.1228	0.0775	0.1178	0.1579
pendigits	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.1251 ± 0.1251	0.0742	0.1273	0.1722
pendigits	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1066 ± 0.1066	0.059	0.098	0.1498
pendigits	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.1684 ± 0.1684	0.0956	0.174	0.2369
pendigits	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.1138 ± 0.1138	0.0667	0.1082	0.1546
pendigits	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.1855 ± 0.1855	0.1055	0.191	0.2606
pendigits	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.0805 ± 0.0805	0.0499	0.0812	0.1092
eyemovements	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.5371 ± 0.5371	0.3553	0.5238	0.7088
eyemovements	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.5025 ± 0.5025	0.2899	0.4841	0.6971
eyemovements	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.4683 ± 0.4683	0.32	0.4656	0.6114
eyemovements	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.344 ± 0.344	0.2114	0.3288	0.4698
eyemovements	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.4329 ± 0.4329	0.2868	0.4223	0.5694
eyemovements	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.2116 ± 0.2116	0.1354	0.2067	0.2792
shuttle	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.0346 ± 0.0346	0.0196	0.0379	0.0492
shuttle	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.0291 ± 0.0291	0.0153	0.0281	0.0422
shuttle	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.1434 ± 0.1434	0.084	0.1587	0.202
shuttle	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.0963 ± 0.0963	0.0563	0.1029	0.1346
shuttle	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.0753 ± 0.0753	0.0437	0.0838	0.1076
shuttle	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.0338 ± 0.0338	0.0192	0.037	0.0482
connect4	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.4602 ± 0.4602	0.3039	0.4645	0.6199
connect4	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.4017 ± 0.4017	0.2281	0.3725	0.552
connect4	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.4673 ± 0.4673	0.2969	0.4646	0.6246
connect4	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.2887 ± 0.2887	0.1792	0.2652	0.3853
connect4	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.5658 ± 0.5658	0.3663	0.5758	0.7688
connect4	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1984 ± 0.1984	0.1247	0.1835	0.2575

Table 2: MAD and quartiles of the absolute difference between $\hat{L}_S + \epsilon$ and $\hat{L}_T + \epsilon_T$ (LogisticRegression, ZeroOneLoss (weight=uniform) and $\delta = 0.05$)

data set	method	MAD	Q_1	Q_2	Q_3
optdigits	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.2022 ± 0.2022	0.1237	0.2009	0.2683
optdigits	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1684 ± 0.1684	0.0899	0.1488	0.2295
optdigits	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.2241 ± 0.2241	0.1349	0.2218	0.3031
optdigits	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.1435 ± 0.1435	0.0832	0.1291	0.1874
optdigits	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.3294 ± 0.3294	0.1911	0.3322	0.4508
optdigits	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1449 ± 0.1449	0.0908	0.1381	0.1916
satimage	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.1842 ± 0.1842	0.1223	0.1785	0.2367
satimage	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1723 ± 0.1723	0.1028	0.159	0.2292
satimage	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.1932 ± 0.1932	0.1286	0.1886	0.2532
satimage	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.1389 ± 0.1389	0.0875	0.1288	0.1809
satimage	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.2633 ± 0.2633	0.1747	0.2578	0.3394
satimage	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1148 ± 0.1148	0.0765	0.1122	0.1431
pendigits	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.2813 ± 0.2813	0.162	0.2355	0.3858
pendigits	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.2488 ± 0.2488	0.1199	0.1904	0.3485
pendigits	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.3708 ± 0.3708	0.224	0.3412	0.4864
pendigits	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.2403 ± 0.2403	0.1246	0.1824	0.3337
pendigits	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.5229 ± 0.5229	0.3057	0.5123	0.691
pendigits	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.2404 ± 0.2404	0.1303	0.1966	0.3352
eyemovements	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.5542 ± 0.5542	0.3746	0.5374	0.7366
eyemovements	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.5313 ± 0.5313	0.3085	0.5144	0.7424
eyemovements	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.471 ± 0.471	0.324	0.4675	0.618
eyemovements	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.3582 ± 0.3582	0.2206	0.3435	0.495
eyemovements	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.4498 ± 0.4498	0.3069	0.4358	0.5967
eyemovements	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.2235 ± 0.2235	0.1532	0.217	0.2951
shuttle	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.1473 ± 0.1473	0.08	0.1251	0.2084
shuttle	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.1195 ± 0.1195	0.0483	0.087	0.169
shuttle	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.2767 ± 0.2767	0.1591	0.2837	0.3606
shuttle	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.1685 ± 0.1685	0.0928	0.1418	0.2197
shuttle	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.3051 ± 0.3051	0.177	0.3141	0.4134
shuttle	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1231 ± 0.1231	0.06	0.101	0.1779
connect4	$\ \mathbf{d}\ _\infty \cdot \ \ell_h\ _1$	0.5506 ± 0.5506	0.3889	0.564	0.6748
connect4	$\ \mathbf{d}_+\ _\infty \cdot \ \ell_h\ _1$	0.4689 ± 0.4689	0.2477	0.4454	0.6746
connect4	$\ \mathbf{d}\ _2 \cdot \ \ell_h\ _2$	0.5784 ± 0.5784	0.4183	0.5854	0.7453
connect4	$\ \mathbf{d}_+\ _2 \cdot \ \ell_h\ _2$	0.3206 ± 0.3206	0.1509	0.3072	0.4636
connect4	$\ \mathbf{d}\ _1 \cdot \ \ell_h\ _\infty$	0.5863 ± 0.5863	0.4147	0.5998	0.7211
connect4	$\ \mathbf{d}_+\ _1 \cdot \ \ell_h\ _\infty$	0.1331 ± 0.1331	0.0391	0.0781	0.2097