Table 1: Feasible class proportions $\Delta p^*$, according to $\|\mathbf{d}\|_\infty \cdot \|\boldsymbol{\ell}_h\|_1$ certificates, which are computed for a ZeroOneLoss (weight=uniform) with $\epsilon = 0.1$ and $\delta = 0.05$.

| data set | classifier | $L_S(h)$ | $\mathbf{p}_S^\top$ | $\Delta p^*$ |
|---|---|---|---|---|
| optdigits | DecisionTreeClassifier | 0.100644 | $[0.7, 0.2, 0.1]$ | 0.16867 |
| optdigits | LogisticRegression | 0.100447 | $[0.7, 0.2, 0.1]$ | 0.176589 |
| satimage | DecisionTreeClassifier | 0.112616 | $[0.58, 0.31, 0.11]$ | 0.214548 |
| satimage | LogisticRegression | 0.108884 | $[0.58, 0.31, 0.11]$ | 0.205845 |
| pendigits | DecisionTreeClassifier | 0.053883 | $[0.7, 0.2, 0.1]$ | 0.303549 |
| pendigits | LogisticRegression | 0.159285 | $[0.7, 0.2, 0.1]$ | 0.136178 |
| eyemovements | DecisionTreeClassifier | 0.491909 | $[0.35, 0.26, 0.39]$ | 0.064455 |
| eyemovements | LogisticRegression | 0.514764 | $[0.35, 0.26, 0.39]$ | 0.060947 |
| shuttle | DecisionTreeClassifier | 0.005789 | $[0.15, 0.79, 0.06]$ | 1.155548 |
| shuttle | LogisticRegression | 0.060663 | $[0.15, 0.79, 0.06]$ | 0.235093 |
| connect4 | DecisionTreeClassifier | 0.307306 | $[0.66, 0.1, 0.25]$ | 0.068729 |
| connect4 | LogisticRegression | 0.343238 | $[0.66, 0.1, 0.25]$ | 0.049199 |

Table 2: Feasible class proportions $\Delta p^*$, according to $\|\mathbf{d}\|_2 \cdot \|\boldsymbol{\ell}_h\|_2$ certificates, which are computed for a ZeroOneLoss (weight=uniform) with $\epsilon = 0.1$ and $\delta = 0.05$.

| data set | classifier | $L_S(h)$ | $\mathbf{p}_S^\top$ | $\Delta p^*$ |
|---|---|---|---|---|
| optdigits | DecisionTreeClassifier | 0.099398 | $[0.7, 0.2, 0.1]$ | 0.223726 |
| optdigits | LogisticRegression | 0.09209 | $[0.7, 0.2, 0.1]$ | 0.229475 |
| satimage | DecisionTreeClassifier | 0.104844 | $[0.58, 0.31, 0.11]$ | 0.255497 |
| satimage | LogisticRegression | 0.111685 | $[0.58, 0.31, 0.11]$ | 0.238392 |
| pendigits | DecisionTreeClassifier | 0.050335 | $[0.7, 0.2, 0.1]$ | 0.300265 |
| pendigits | LogisticRegression | 0.162287 | $[0.7, 0.2, 0.1]$ | 0.139926 |
| eyemovements | DecisionTreeClassifier | 0.502065 | $[0.35, 0.26, 0.39]$ | 0.093847 |
| eyemovements | LogisticRegression | 0.517876 | $[0.35, 0.26, 0.39]$ | 0.090552 |
| shuttle | DecisionTreeClassifier | 0.005461 | $[0.15, 0.79, 0.06]$ | 0.443371 |
| shuttle | LogisticRegression | 0.061335 | $[0.15, 0.79, 0.06]$ | 0.190961 |
| connect4 | DecisionTreeClassifier | 0.307336 | $[0.66, 0.1, 0.25]$ | 0.087454 |
| connect4 | LogisticRegression | 0.34414 | $[0.66, 0.1, 0.25]$ | 0.061917 |

Table 3: Feasible class proportions $\Delta p^*$, according to $\|\mathbf{d}\|_1 \cdot \|\boldsymbol{\ell}_h\|_\infty$ certificates, which are computed for a ZeroOneLoss (weight=uniform) with $\epsilon = 0.1$ and $\delta = 0.05$.

| data set | classifier | $L_S(h)$ | $\mathbf{p}_S^\top$ | $\Delta p^*$ |
|---|---|---|---|---|
| optdigits | DecisionTreeClassifier | 0.103311 | $[0.7, 0.2, 0.1]$ | 0.241678 |
| optdigits | LogisticRegression | 0.094938 | $[0.7, 0.2, 0.1]$ | 0.244842 |
| satimage | DecisionTreeClassifier | 0.107024 | $[0.58, 0.31, 0.11]$ | 0.307459 |
| satimage | LogisticRegression | 0.104219 | $[0.58, 0.31, 0.11]$ | 0.303724 |
| pendigits | DecisionTreeClassifier | 0.053247 | $[0.7, 0.2, 0.1]$ | 0.405433 |
| pendigits | LogisticRegression | 0.163288 | $[0.7, 0.2, 0.1]$ | 0.157365 |
| eyemovements | DecisionTreeClassifier | 0.497031 | $[0.35, 0.26, 0.39]$ | 0.157753 |
| eyemovements | LogisticRegression | 0.51266 | $[0.35, 0.26, 0.39]$ | 0.152307 |
| shuttle | DecisionTreeClassifier | 0.005944 | $[0.15, 0.79, 0.06]$ | 1.190718 |
| shuttle | LogisticRegression | 0.061266 | $[0.15, 0.79, 0.06]$ | 0.266753 |
| connect4 | DecisionTreeClassifier | 0.302836 | $[0.66, 0.1, 0.25]$ | 0.118017 |
| connect4 | LogisticRegression | 0.343267 | $[0.66, 0.1, 0.25]$ | 0.094233 |