

	Naïve	ATC	DoC	LEAP <sub>ACC</sub>	LEAP <sub>KDEy</sub>	S-LEAP <sub>KDEy</sub>	O-LEAP <sub>KDEy</sub>
pageblocks.5	.341 ± .208	.129 ± .090	.084 ± .062	.080 ± .065	.042 ± .038	.035 ± .029	<b>.033 ± .028</b>
wine-q-white	.120 ± .083	.096 ± .072	.052 ± .038	.058 ± .051	.044 <sup>†</sup> ± .036	<b>.043 ± .035</b>	.044 ± .035
spambase	.024 ± .018	.025 ± .019	.023 <sup>†</sup> ± .019	.022 <sup>†</sup> ± .017	<b>.031 ± .023</b>	.022 <sup>†</sup> ± .017	<b>.022 ± .017</b>
ctg.1	.044 ± .032	.032 ± .025	<b>.029 ± .021</b>	.049 ± .035	.032 ± .021	.048 ± .032	.048 ± .032
ctg.2	.100 ± .076	<b>.076 ± .058</b>	.079 <sup>†</sup> ± .055	.123 ± .075	<b>.132 ± .085</b>	.079 <sup>†</sup> ± .059	.081 ± .055
ctg.3	.109 ± .076	.034 ± .029	.043 ± .033	.033 ± .027	.042 ± .036	<b>.028 ± .023</b>	.028 <sup>†</sup> ± .024
wine-q-red	.038 <sup>†</sup> ± .027	.069 ± .049	.050 ± .035	<b>.036 ± .027</b>	.042 ± .033	.039 <sup>†</sup> ± .028	.038 <sup>†</sup> ± .027
semeion	.127 ± .088	.095 ± .064	<b>.025 ± .022</b>	.057 ± .047	.043 ± .031	.051 ± .040	.034 ± .026
yeast	.134 ± .093	.092 ± .069	.062 <sup>†</sup> ± .047	.074 ± .061	.063 ± .053	.061 ± .045	<b>.055 ± .044</b>
cmc.1	.074 ± .048	.082 ± .057	.086 ± .057	.074 ± .055	.074 ± .058	<b>.055 ± .042</b>	.056 ± .042
cmc.2	.268 ± .196	.177 ± .133	.129 <sup>†</sup> ± .080	.168 ± .128	.131 ± .097	.121 ± .084	<b>.119 ± .082</b>
cmc.3	.184 ± .126	.165 ± .122	.104 ± .077	<b>.172 ± .139</b>	.099 ± .080	<b>.075 ± .059</b>	.079 ± .067
german	.127 ± .088	.103 ± .073	.063 <sup>†</sup> ± .044	.088 ± .072	.062 <sup>†</sup> ± .052	.059 <sup>†</sup> ± .046	<b>.058 ± .048</b>
tictactoe	.017 ± .013	.023 ± .022	<b>.012 ± .010</b>	.013 ± .011	.018 ± .015	.013 ± .011	.013 ± .011
mammographic	.060 ± .039	.070 ± .042	<b>.087 ± .042</b>	.060 ± .040	<b>.045 ± .033</b>	.060 ± .040	.060 ± .039
transfusion	.277 ± .201	.203 ± .148	.096 <sup>†</sup> ± .070	.165 ± .140	<b>.091 ± .073</b>	.112 ± .085	.093 <sup>†</sup> ± .075
breast-cancer	.025 ± .018	.020 ± .016	<b>.014 ± .010</b>	.022 ± .015	.014 <sup>†</sup> ± .011	.022 ± .015	.022 ± .015
balance.1	<b>.022 ± .014</b>	.033 ± .025	.027 ± .015	.025 ± .018	<b>.032 ± .027</b>	.025 ± .018	.025 ± .017
balance.3	.028 ± .021	.049 ± .034	.032 ± .026	.019 <sup>†</sup> ± .017	.021 ± .017	.019 ± .016	<b>.019 ± .016</b>
wdbc	<b>.024 ± .020</b>	.030 ± .022	.030 ± .020	.025 <sup>†</sup> ± .018	<b>.037 ± .031</b>	.026 <sup>†</sup> ± .019	.025 <sup>†</sup> ± .018
ionosphere	<b>.056 ± .042</b>	.071 ± .047	.099 ± .071	.095 ± .066	.106 ± .069	.084 ± .063	.086 ± .059
haberman	.223 ± .157	.145 ± .101	.109 ± .086	.189 ± .141	.132 ± .096	.103 <sup>†</sup> ± .085	<b>.098 ± .077</b>
spectf	.133 ± .097	.096 ± .073	<b>.050 ± .042</b>	.066 ± .058	.057 ± .047	.076 ± .058	.075 ± .052
sonar	.075 ± .049	.121 ± .080	.165 ± .076	<b>.049 ± .036</b>	.061 ± .046	.069 ± .045	.067 ± .043
wine.1	.032 ± .000	.028 ± .023	<b>.000 ± .000</b>	.052 ± .029	.123 ± .081	.048 ± .024	.048 ± .026
wine.2	<b>.019 ± .011</b>	.039 ± .025	.020 <sup>†</sup> ± .011	.022 ± .017	.040 ± .032	.021 <sup>†</sup> ± .016	.022 ± .016
wine.3	.018 ± .015	.026 ± .022	.026 ± .022	.017 ± .016	.017 ± .015	.017 ± .016	<b>.016 ± .015</b>
iris.2	.108 ± .070	<b>.072 ± .047</b>	.212 ± .152	<b>.353 ± .119</b>	.220 ± .109	.100 ± .078	.105 ± .074
iris.3	.032 <sup>†</sup> ± .021	.050 ± .031	.067 ± .025	.031 <sup>†</sup> ± .021	.035 ± .029	.032 <sup>†</sup> ± .022	<b>.030 ± .021</b>
Average	<b>.098 ± .124</b>	.078 ± .082	.065 ± .072	.077 ± .099	.065 ± .072	.053 <sup>†</sup> ± .055	<b>.052 ± .052</b>

Table 1: /home/loreve/quacc/output/leap/tables/tables/binary\_LR\_vanilla\_accuracy\_table.tex

	Naïve	ATC	DoC	LEAP <sub>ACC</sub>	LEAP <sub>KDEy</sub>	S-LEAP <sub>KDEy</sub>	O-LEAP <sub>KDEy</sub>
pageblocks.5	.355 ± .217	.242 ± .148	.041 ± .034	.094 ± .077	.049 ± .045	<b>.037 ± .033</b>	.038 ± .033
wine-q-white	.077 ± .054	.047 ± .037	.042 ± .032	.041 ± .035	.047 ± .037	.038 <sup>†</sup> ± .030	<b>.037 ± .030</b>
spambase	.045 ± .031	.074 ± .048	.029 <sup>†</sup> ± .023	.029 ± .021	.038 ± .031	.027 <sup>†</sup> ± .020	<b>.027 ± .020</b>
ctg.1	.068 ± .052	.100 ± .062	.060 ± .041	.049 ± .039	<b>.024 ± .018</b>	.043 ± .033	.043 ± .033
ctg.2	.170 ± .125	.184 ± .107	<b>.029 ± .022</b>	.116 ± .083	.100 ± .078	.062 ± .052	.058 ± .048
ctg.3	.203 ± .136	.126 ± .085	.071 ± .049	.070 ± .060	.044 ± .036	.053 ± .045	<b>.040 ± .035</b>
wine-q-red	.039 <sup>†</sup> ± .030	.147 ± .061	.053 ± .037	<b>.036 ± .028</b>	.044 ± .035	.040 ± .030	.038 <sup>†</sup> ± .029
semeion	.149 ± .105	.085 ± .059	.031 ± .025	.041 ± .037	.031 <sup>†</sup> ± .029	.032 ± .028	<b>.027 ± .022</b>
yeast	.137 ± .097	.109 ± .078	.072 <sup>†</sup> ± .053	<b>.143 ± .097</b>	.107 ± .078	.072 ± .055	<b>.066 ± .050</b>
cmc.1	.149 ± .091	.230 ± .147	.131 ± .094	.094 ± .079	<b>.062 ± .049</b>	.064 <sup>†</sup> ± .046	.068 ± .047
cmc.2	.249 ± .181	.346 ± .208	<b>.089 ± .068</b>	.172 ± .142	.102 ± .074	.108 ± .080	.104 ± .077
cmc.3	.177 ± .120	.247 ± .164	.125 ± .079	.129 ± .105	<b>.083 ± .068</b>	.094 ± .071	.093 ± .072
german	.146 ± .100	.237 ± .124	.094 ± .068	.138 ± .096	.082 ± .064	.075 <sup>†</sup> ± .058	<b>.073 ± .055</b>
tictactoe	.075 ± .052	.069 ± .046	.052 ± .033	.030 ± .026	.028 ± .030	.024 ± .020	<b>.021 ± .019</b>
mammographic	.055 <sup>†</sup> ± .037	.104 ± .047	.056 <sup>†</sup> ± .037	.055 ± .037	.066 ± .044	.055 ± .037	<b>.055 ± .037</b>
transfusion	.229 ± .166	.190 ± .132	<b>.074 ± .058</b>	.163 ± .120	.096 ± .077	.080 <sup>†</sup> ± .060	.087 ± .068
breast-cancer	.017 ± .011	.024 ± .018	.020 ± .012	.017 ± .011	<b>.012 ± .010</b>	.017 ± .010	.017 ± .010
balance.1	.039 ± .025	.049 ± .035	<b>.068 ± .036</b>	.031 ± .025	.040 ± .037	<b>.029 ± .023</b>	.030 ± .023
balance.3	.026 ± .021	.071 ± .031	.030 ± .024	.021 <sup>†</sup> ± .017	.026 ± .022	.021 ± .017	<b>.021 ± .017</b>
wdbc	.044 ± .032	.033 ± .024	<b>.029 ± .021</b>	.031 <sup>†</sup> ± .022	.029 <sup>†</sup> ± .023	.032 <sup>†</sup> ± .023	.031 <sup>†</sup> ± .022
ionosphere	.153 ± .103	<b>.056 ± .048</b>	.083 ± .050	.071 ± .056	.065 ± .051	.073 ± .052	.073 ± .052
haberman	.236 ± .167	.173 ± .128	.174 ± .111	.266 ± .201	.106 ± .082	<b>.090 ± .072</b>	.107 ± .085
spectf	.216 ± .157	.257 ± .130	.132 ± .077	.379 ± .203	<b>.082 ± .066</b>	.096 ± .069	.296 ± .175
sonar	.140 ± .092	.118 ± .085	.120 ± .085	.190 ± .118	.174 ± .108	.103 ± .054	<b>.092 ± .050</b>
wine.1	<b>.012 ± .008</b>	.014 <sup>†</sup> ± .014	.014 <sup>†</sup> ± .014	.023 ± .015	.087 ± .061	.021 ± .014	.022 ± .015
wine.2	<b>.084 ± .032</b>	.090 <sup>†</sup> ± .060	.137 ± .056	.150 ± .078	.198 ± .108	.128 ± .072	.123 ± .069
wine.3	.034 ± .026	.053 ± .037	.047 ± .032	.033 ± .028	<b>.014 ± .014</b>	.033 ± .027	.026 ± .021
iris.2	.059 ± .015	<b>.017 ± .016</b>	.044 ± .030	.086 ± .046	<b>.127 ± .082</b>	.083 ± .049	.082 ± .046
iris.3	.121 ± .091	<b>.037 ± .030</b>	.037 <sup>†</sup> ± .028	.085 ± .063	.042 ± .031	.056 ± .046	.044 ± .032
Average	.121 ± .130	.122 ± .126	.068 ± .066	.096 ± .117	.069 ± .073	<b>.058 ± .055</b>	.063 ± .076

Table 2: /home/loreve/quacc/output/leap/tables/tables/binary\_kNN\_vanilla\_accuracy\_table.tex

	Naïve	ATC	DoC	LEAP <sub>ACC</sub>	LEAP <sub>KDEy</sub>	S-LEAP <sub>KDEy</sub>	O-LEAP <sub>KDEy</sub>
pageblocks.5	.372 ± .227	.200 ± .123	.184 ± .122	<b>.073 ± .060</b>	.089 ± .065	.106 ± .064	.103 ± .063
wine-q-white	.083 ± .058	.049 ± .040	.042 ± .033	.042 ± .036	.044 ± .034	.037 <sup>†</sup> ± .030	<b>.036 ± .029</b>
spambase	.028 ± .020	.028 ± .022	.028 ± .022	<b>.022 ± .017</b>	<b>.031 ± .024</b>	.023 <sup>†</sup> ± .016	.022 <sup>†</sup> ± .016
ctg.1	.071 ± .053	.049 ± .039	.031 ± .025	.037 ± .028	<b>.025 ± .019</b>	.027 <sup>†</sup> ± .020	.026 <sup>†</sup> ± .020
ctg.2	.167 ± .124	<b>.037 ± .029</b>	.069 ± .053	.109 ± .078	.065 ± .055	.040 <sup>†</sup> ± .034	.038 <sup>†</sup> ± .033
ctg.3	.194 ± .127	.102 ± .066	<b>.035 ± .029</b>	.081 ± .059	.090 ± .069	.106 ± .071	.106 ± .071
wine-q-red	.046 ± .032	<b>.060 ± .043</b>	<b>.038 ± .028</b>	.041 ± .031	.042 <sup>†</sup> ± .032	.047 ± .033	.045 ± .033
semeion	.149 ± .103	.082 ± .059	<b>.022 ± .018</b>	.084 ± .065	.067 ± .057	.079 ± .059	.079 ± .058
yeast	.143 ± .098	.076 ± .052	.072 ± .052	.079 ± .065	.071 ± .058	.059 ± .044	<b>.052 ± .041</b>
cmc.1	.094 ± .061	<b>.097 ± .070</b>	.079 ± .057	.052 ± .042	.048 <sup>†</sup> ± .039	.049 ± .036	<b>.047 ± .035</b>
cmc.2	.290 ± .212	.210 ± .155	.222 ± .135	.233 ± .180	<b>.121 ± .087</b>	.150 ± .105	.131 ± .087
cmc.3	.167 ± .109	<b>.091 ± .066</b>	.168 ± .118	.164 ± .115	.124 ± .081	.122 ± .083	.117 ± .076
german	.203 ± .138	.154 ± .108	.094 ± .065	.150 ± .117	<b>.086 ± .065</b>	.111 ± .084	.109 ± .082
tictactoe	.030 ± .025	.019 ± .017	.026 ± .021	<b>.015 ± .014</b>	.021 ± .019	.025 ± .022	.022 ± .021
mammographic	.063 ± .044	<b>.078 ± .045</b>	.069 ± .047	<b>.055 ± .040</b>	<b>.078 ± .045</b>	.065 ± .040	.065 ± .040
transfusion	.269 ± .194	.206 ± .151	<b>.098 ± .076</b>	.245 ± .179	.103 <sup>†</sup> ± .076	.130 ± .092	.102 <sup>†</sup> ± .078
breast-cancer	.026 ± .012	<b>.014 ± .012</b>	.030 ± .015	.031 ± .013	.020 ± .015	.028 ± .013	.028 ± .013
balance.1	.022 <sup>†</sup> ± .018	.027 ± .020	.022 <sup>†</sup> ± .018	<b>.020 ± .016</b>	<b>.027 ± .023</b>	.023 ± .017	.022 ± .016
balance.3	.055 ± .019	<b>.033 ± .023</b>	.058 ± .024	.045 ± .021	.038 ± .025	.037 ± .017	.037 ± .017
wdbc	.024 ± .019	.026 ± .021	.043 ± .030	.024 ± .018	.031 ± .021	.021 ± .017	<b>.020 ± .016</b>
ionosphere	<b>.025 ± .016</b>	.031 ± .023	.048 ± .035	.034 ± .026	.038 ± .028	.030 ± .021	.046 ± .032
haberman	.239 ± .169	.122 ± .081	<b>.087 ± .070</b>	.185 ± .149	.175 ± .121	.118 ± .091	.129 ± .099
spectf	.310 ± .224	.178 ± .130	<b>.069 ± .051</b>	.180 ± .146	.151 ± .113	.268 ± .159	.179 ± .131
sonar	.131 ± .066	<b>.041 ± .030</b>	.176 ± .085	.113 ± .043	.168 ± .089	.116 ± .041	.117 ± .039
wine.1	.016 ± .000	<b>.000 ± .000</b>	<b>.000 ± .000</b>	.025 ± .014	.087 ± .062	.023 ± .013	.027 ± .011
wine.2	.024 ± .017	<b>.012 ± .012</b>	.038 ± .019	.021 ± .016	.016 ± .013	.021 ± .016	.019 ± .014
wine.3	.018 ± .015	.026 ± .022	<b>.016 ± .016</b>	.017 ± .016	.020 ± .017	<b>.026 ± .022</b>	.022 ± .018
iris.2	.044 ± .022	.034 ± .026	<b>.022 ± .014</b>	.048 ± .032	<b>.092 ± .057</b>	.055 ± .033	.054 ± .031
iris.3	.066 ± .051	.039 ± .026	.116 ± .059	.036 ± .027	.032 <sup>†</sup> ± .027	<b>.030 ± .024</b>	.031 ± .025
Average	.116 ± .145	.073 ± .091	.069 ± .079	.078 ± .101	.069 ± .073	.068 ± .079	<b>.063 ± .068</b>

Table 3: /home/loreve/quacc/output/leap/tables/tables/binary\_SVM\_vanilla\_accuracy\_table.tex

	Naïve	ATC	DoC	LEAP <sub>ACC</sub>	LEAP <sub>KDEy</sub>	S-LEAP <sub>KDEy</sub>	O-LEAP <sub>KDEy</sub>
pageblocks.5	.221 ± .137	.144 ± .097	.070 ± .060	.062 ± .056	<b>.038 ± .031</b>	.041 ± .036	.039 ± .032
wine-q-white	.072 ± .053	.058 ± .045	.046 ± .035	.041 ± .035	.044 ± .035	.038 ± .030	<b>.037 ± .030</b>
spambase	.028 ± .022	.026 ± .020	.025 ± .019	.024 ± .019	<b>.027 ± .021</b>	.023 <sup>†</sup> ± .019	<b>.023 ± .018</b>
ctg.1	.057 ± .042	.029 ± .024	.031 ± .026	.025 ± .021	.024 ± .018	.023 <sup>†</sup> ± .019	<b>.022 ± .018</b>
ctg.2	.146 ± .106	.091 ± .067	.048 ± .041	.049 ± .041	.051 ± .045	<b>.035 ± .028</b>	.036 ± .030
ctg.3	.099 ± .067	.067 ± .049	.086 ± .056	.049 ± .039	<b>.038 ± .030</b>	.046 ± .036	.040 ± .032
wine-q-red	.056 ± .039	.054 ± .041	<b>.044 ± .031</b>	.046 <sup>†</sup> ± .033	.054 ± .042	.050 ± .035	.048 ± .033
semeion	.057 ± .046	.028 ± .025	.041 ± .031	.024 ± .020	.044 ± .036	.021 <sup>†</sup> ± .018	<b>.021 ± .018</b>
yeast	.091 ± .064	.068 ± .050	.059 ± .046	.050 ± .042	.049 ± .042	.045 ± .035	<b>.043 ± .034</b>
cmc.1	.062 ± .045	<b>.066 ± .050</b>	.062 ± .046	.049 ± .039	<b>.062 ± .046</b>	.045 ± .035	<b>.042 ± .033</b>
cmc.2	.160 ± .117	.081 ± .064	<b>.058 ± .043</b>	.124 ± .084	.092 ± .071	.102 ± .065	.104 ± .069
cmc.3	.088 ± .063	.059 <sup>†</sup> ± .047	.071 ± .050	.072 ± .053	.059 <sup>†</sup> ± .049	.065 ± .047	<b>.057 ± .042</b>
german	.103 ± .068	.079 ± .054	.088 ± .056	.067 ± .058	.072 ± .057	.054 ± .039	<b>.048 ± .036</b>
tictactoe	.015 ± .011	.014 <sup>†</sup> ± .012	.013 ± .009	.012 ± .010	.014 ± .011	<b>.012 ± .010</b>	.013 ± .010
mammographic	.063 ± .044	<b>.092 ± .044</b>	.065 ± .043	.063 ± .044	<b>.041 ± .030</b>	.063 ± .044	.062 ± .044
transfusion	<b>.163 ± .121</b>	.114 ± .089	<b>.060 ± .047</b>	.080 ± .070	.066 <sup>†</sup> ± .059	.084 ± .068	.073 ± .061
breast-cancer	.026 ± .012	.018 ± .016	.021 ± .014	<b>.034 ± .019</b>	<b>.011 ± .010</b>	<b>.034 ± .018</b>	<b>.034 ± .018</b>
balance.1	.026 ± .019	.029 ± .020	<b>.032 ± .021</b>	.026 ± .019	<b>.020 ± .017</b>	.026 ± .019	.022 <sup>†</sup> ± .016
balance.3	.012 ± .007	.013 <sup>†</sup> ± .012	.012 <sup>†</sup> ± .013	<b>.011 ± .007</b>	.025 ± .017	.011 <sup>†</sup> ± .007	.011 <sup>†</sup> ± .007
wdbc	.058 ± .028	<b>.063 ± .029</b>	.044 ± .026	.050 ± .029	<b>.028 ± .024</b>	.052 ± .030	.049 ± .028
ionosphere	.049 ± .030	<b>.040 ± .028</b>	<b>.126 ± .071</b>	.084 ± .053	.092 ± .059	.084 ± .056	.084 ± .053
haberman	.085 ± .058	.154 ± .063	.127 ± .085	<b>.176 ± .096</b>	.153 ± .089	<b>.068 ± .053</b>	.083 ± .063
spectf	.148 ± .107	<b>.063 ± .046</b>	.122 ± .089	.141 ± .108	.157 ± .113	.130 ± .092	.130 ± .101
sonar	.080 ± .036	.039 <sup>†</sup> ± .030	<b>.036 ± .025</b>	.073 ± .032	.083 ± .072	.079 ± .031	.077 ± .030
wine.1	.016 ± .000	<b>.000 ± .000</b>	<b>.000 ± .000</b>	.025 ± .014	.088 ± .062	.023 ± .013	.027 ± .011
wine.2	.016 ± .013	.023 ± .019	<b>.010 ± .008</b>	.022 ± .016	.026 ± .020	.022 ± .017	.022 ± .016
wine.3	.045 ± .029	.041 ± .032	.049 ± .030	.040 ± .033	<b>.024 ± .017</b>	.037 ± .031	.030 ± .024
iris.2	<b>.030 ± .017</b>	.032 <sup>†</sup> ± .025	.038 ± .028	.048 ± .032	<b>.088 ± .057</b>	.048 ± .034	.047 ± .032
iris.3	.047 ± .027	<b>.000 ± .000</b>	.084 ± .029	.040 ± .029	.035 ± .030	.045 ± .032	.041 ± .028
Average	<b>.073 ± .080</b>	.055 ± .058	.054 ± .054	.055 ± .060	.055 ± .060	.048 ± .047	<b>.047 ± .047</b>

Table 4: /home/loreve/quacc/output/leap/tables/tables/binary\_MLP\_vanilla\_accuracy\_table.tex