

Training Phase Output

➤ Optimized

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tree= 0, node= 1, feature=15, thr= 21.57, gain=0.621424
tree= 0, node= 2, feature= 4, thr= 41.18, gain=0.587628
tree= 0, node= 3, feature=13, thr= 58.82, gain=0.697235
tree= 0, node= 4, feature= 9, thr= 15.69, gain=0.670083
tree= 0, node= 5, feature=10, thr= 39.22, gain=0.629044
tree= 0, node= 6, feature= 0, thr= 35.29, gain=0.712500
tree= 0, node= 7, feature= 8, thr= 56.86, gain=0.814218
tree= 0, node= 8, feature=14, thr= 60.78, gain=0.475710
tree= 0, node= 9, feature= 5, thr= 64.71, gain=0.620325
tree= 0, node=10, feature=14, thr= 37.25, gain=0.224713
tree= 0, node=11, feature= 3, thr= 90.20, gain=0.686759
tree= 0, node=12, feature=14, thr= 37.25, gain=0.281171
tree= 0, node=13, feature=10, thr= 29.41, gain=0.584898
tree= 0, node=14, feature=14, thr= 96.08, gain=0.737506
tree= 0, node=15, feature= 7, thr= 24.33, gain=0.205385
tree= 0, node=16, feature= 1, thr= 73.53, gain=0.027989
tree= 0, node=17, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=18, feature=15, thr= 0.41, gain=0.188928
tree= 0, node=19, feature= 9, thr= 60.47, gain=0.530651
tree= 0, node=20, feature=12, thr= 30.06, gain=0.640257
tree= 0, node=21, feature= 8, thr= 34.59, gain=0.140904
tree= 0, node=22, feature= 6, thr= 72.55, gain=0.509615
tree= 0, node=23, feature= 7, thr= 77.10, gain=0.409412
tree= 0, node=24, feature= 1, thr= 84.51, gain=0.550957
tree= 0, node=25, feature=13, thr= 14.78, gain=0.131381
tree= 0, node=26, feature=15, thr= 31.18, gain=0.222560
tree= 0, node=27, feature= 9, thr= 19.61, gain=0.464511
tree= 0, node=28, feature=11, thr= 31.67, gain=0.157508
tree= 0, node=29, feature=13, thr= 71.06, gain=0.344859
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tree= 0, node=37, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=39, feature= 0, thr= 39.22, gain=0.203813
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tree= 0, node=583, feature=-1, thr= -1.00, gain=-1.000000

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➤ Randomized

tree= 0, node= 1, feature= 7, thr= 47.06, gain=0.473234
tree= 0, node= 2, feature= 6, thr= 23.53, gain=0.342295
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tree= 0, node= 6, feature=12, thr= 18.12, gain=0.148542
tree= 0, node= 7, feature=15, thr= 20.24, gain=0.183958
tree= 0, node= 8, feature= 3, thr= 99.22, gain=0.079472
tree= 0, node= 9, feature= 2, thr= 56.86, gain=0.223101
tree= 0, node= 10, feature=15, thr= 1.96, gain=0.755290
tree= 0, node= 11, feature= 4, thr= 39.22, gain=0.493044
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tree= 0, node= 13, feature=11, thr= 33.33, gain=0.376538
tree= 0, node= 14, feature= 7, thr= 77.57, gain=0.461659
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tree= 0, node= 16, feature= 1, thr= 97.06, gain=0.160580
tree= 0, node= 17, feature=10, thr= 41.18, gain=0.645744
tree= 0, node= 18, feature=11, thr= 61.18, gain=0.571571
tree= 0, node= 19, feature=14, thr= 43.14, gain=0.378617
tree= 0, node= 20, feature= 9, thr= 11.94, gain=0.105119
tree= 0, node= 21, feature=13, thr= 51.69, gain=0.190659
tree= 0, node= 22, feature= 1, thr= 99.04, gain=0.190134
tree= 0, node= 23, feature= 1, thr= 79.73, gain=0.301565
tree= 0, node= 24, feature= 5, thr= 66.27, gain=0.398073
tree= 0, node= 25, feature= 1, thr= 77.41, gain=0.576599
tree= 0, node= 26, feature= 8, thr= 87.29, gain=0.371152
tree= 0, node= 27, feature=11, thr= 52.12, gain=0.261888
tree= 0, node= 28, feature= 0, thr= 68.63, gain=0.386153
tree= 0, node= 29, feature=11, thr= 39.25, gain=0.175481
tree= 0, node= 30, feature=14, thr= 64.71, gain=0.730963
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tree= 0, node= 60, feature= 7, thr= 59.22, gain=0.582965
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tree= 0, node=105, feature= 1, thr= 86.06, gain=0.390410
tree= 0, node=108, feature= 3, thr= 90.39, gain=0.194731
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tree= 0, node=116, feature= 2, thr= 76.47, gain=0.585184
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➤ Forest3

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tree= 0, node= 2, feature= 6, thr= 23.53, gain=0.342295
tree= 0, node= 3, feature=12, thr= 33.33, gain=0.125263
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tree= 0, node= 10, feature=15, thr= 1.96, gain=0.755290
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tree= 0, node= 15, feature=15, thr= 47.76, gain=0.248058
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tree= 0, node= 17, feature=10, thr= 41.18, gain=0.645744
tree= 0, node= 18, feature=11, thr= 61.18, gain=0.571571
tree= 0, node= 19, feature=14, thr= 43.14, gain=0.378617
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tree= 0, node= 21, feature=13, thr= 51.69, gain=0.190659
tree= 0, node= 22, feature= 1, thr= 99.04, gain=0.190134
tree= 0, node= 23, feature= 1, thr= 79.73, gain=0.301565
tree= 0, node= 24, feature= 5, thr= 66.27, gain=0.398073
tree= 0, node= 25, feature= 1, thr= 77.41, gain=0.576599
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tree= 0, node= 52, feature= 9, thr= 33.65, gain=0.348823
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tree= 2, node=852, feature= 2, thr= 17.14, gain=0.087102
tree= 2, node=853, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=866, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=870, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=877, feature= 0, thr= 3.65, gain=0.503258
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tree= 2, node=1001, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=1002, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=1170, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=1310, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=1311, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=1330, feature= 8, thr= 17.65, gain=0.114115
tree= 2, node=1331, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=1334, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=1335, feature= 3, thr= 70.43, gain=0.944387
tree= 2, node=1340, feature= 7, thr= 25.59, gain=0.090324
tree= 2, node=1341, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=1410, feature= 4, thr= 91.16, gain=0.094007
tree= 2, node=1411, feature=-1, thr= -1.00, gain=-1.000000

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tree= 2, node=1482, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=1512, feature=11, thr= 48.53, gain=0.130098
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tree= 2, node=1515, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=2630, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2631, feature= 4, thr= 66.06, gain=0.060777
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tree= 2, node=2657, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2660, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2661, feature=15, thr= 65.12, gain=0.215449
tree= 2, node=2670, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2671, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=2902, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2903, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=2960, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=2961, feature= 5, thr= 98.24, gain=0.118660
tree= 2, node=2966, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=3024, feature= 9, thr= 64.47, gain=0.134917
tree= 2, node=3025, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=3028, feature=10, thr= 57.00, gain=0.156381
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tree= 2, node=3061, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=3470, feature= 0, thr= 1.51, gain=0.021599
tree= 2, node=3471, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=5642, feature= 1, thr= 48.04, gain=0.072537
tree= 2, node=5643, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=6032, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=6033, feature= 2, thr= 63.71, gain=0.011755
tree= 2, node=6048, feature=15, thr= 14.43, gain=0.068990
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tree= 2, node=11285, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=12067, feature= 1, thr= 84.08, gain=0.005925
tree= 2, node=12096, feature= 1, thr= 88.47, gain=0.178991
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tree= 2, node=12114, feature= 7, thr= 73.12, gain=0.122292
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tree= 2, node=12241, feature= 3, thr= 62.27, gain=0.108283
tree= 2, node=20736, feature=12, thr= 35.49, gain=0.069360
tree= 2, node=20737, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=21290, feature= 3, thr= 99.12, gain=0.004973
tree= 2, node=21291, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=41473, feature= 9, thr= 0.39, gain=0.090289
tree= 2, node=42580, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=42581, feature= 0, thr= 22.51, gain=0.072522
tree= 2, node=48268, feature= 1, thr= 83.06, gain=0.040173
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tree= 2, node=96536, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=96537, feature=-1, thr= -1.00, gain=-1.000000

Classification Output

- Optimized
 - classification accuracy=0.8382
- Randomized
 - classification accuracy=0.6913
- Forest3
 - classification accuracy=0.8096