dtree pendigits_training pendigits_test optimized 50

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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 tree= 0, node= 30, feature= 2, thr= 54.90, gain=0.092930 tree= 0, node= 31, feature= 9, thr= 58.82, gain=0.918296 tree= 0, node= 32, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 33, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 36, feature= 7, thr= 66.47, gain=0.110097 tree= 0, node= 37, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 38, feature=14, thr= 25.49, gain=0.773333 tree= 0, node= 39, feature= 0, thr= 39.22, gain=0.203813 tree= 0, node= 40, feature= 3, thr= 96.71, gain=0.374672 tree= 0, node= 41, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 42, feature= 9, thr= 1.43, gain=0.077936 tree= 0, node= 43, feature= 6, thr= 68.14, gain=0.274080 tree= 0, node= 44, feature=14, thr= 96.08, gain=0.341335 tree= 0, node= 45, feature= 1, thr= 82.35, gain=0.324193 tree= 0, node= 46, feature= 2, thr= 88.59, gain=0.253482 tree= 0, node= 47, feature= 5, thr= 89.29, gain=0.811518 tree= 0, node= 48, feature= 8, thr= 76.47, gain=0.650022 tree= 0, node= 49, feature= 6, thr= 50.47, gain=0.757526 tree= 0, node= 50, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 51, feature= 3, thr= 87.45, gain=0.051386 tree= 0, node= 52, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 53, feature= 0, thr= 53.57, gain=0.129949 tree= 0, node= 54, feature=15, thr= 67.29, gain=0.265884 tree= 0, node= 55, feature=10, thr= 67.06, gain=0.773029 tree= 0, node= 56, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 57, feature=12, thr= 21.57, gain=0.159034 tree= 0, node= 58, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 59, feature= 5, thr= 54.41, gain=0.006884 tree= 0, node= 60, feature= 6, thr= 96.08, gain=0.024998 tree= 0, node= 61, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 62, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 63, feature= 1, thr= 3.92, gain=0.998846 tree= 0, node= 72, feature= 5, thr= 13.35, gain=0.035341 tree= 0, node= 73, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 76, feature= 7, thr= 71.86, gain=0.496889 tree= 0, node= 77, feature=10, thr= 60.78, gain=0.864204 tree= 0, node= 78, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 79, feature= 1, thr= 92.47, gain=0.078528 tree= 0, node= 80, feature= 5, thr= 68.63, gain=0.135036 tree= 0, node= 81, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 84, feature= 8, thr= 18.67, gain=0.368566 tree= 0, node= 85, feature= 7, thr= 73.02, gain=0.050120 tree= 0, node= 86, feature=12, thr= 55.47, gain=0.287642 tree= 0, node= 87, feature= 8, thr= 49.82, gain=0.208356 tree= 0, node= 88, feature= 1, thr= 39.18, gain=0.308576 tree= 0, node= 89, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 90, feature= 5, thr= 15.69, gain=0.106446 tree= 0, node= 91, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 92, feature= 0, thr= 78.43, gain=0.174910 tree= 0, node= 93, feature= 5, thr= 84.31, gain=0.901825 tree= 0, node= 94, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 95, feature= 6, thr= 70.59, gain=0.988057

tree= 0, node= 96, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 97, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 98, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 99, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=102, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=103, feature= 8, thr= 1.96, gain=0.027154 tree= 0, node=106, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=107, feature=14, thr= 1.96, gain=0.057144 tree= 0, node=108, feature= 4, thr= 62.75, gain=0.149994 tree= 0, node=109, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=110, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=111, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=114, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=115, feature= 1, thr= 26.47, gain=0.028970 tree= 0, node=118, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=119, feature= 6, thr= 45.33, gain=0.097300 tree= 0, node=120, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=121, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=126, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=127, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=144, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=145, feature=13, thr= 6.08, gain=0.024501 tree= 0, node=152, feature=13, thr= 5.10, gain=0.465185 tree= 0, node=153, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=154, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=155, feature= 7, thr= 54.53, gain=0.349184 tree= 0, node=158, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=159, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=160, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=161, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=168, feature= 5, thr= 74.55, gain=0.060896 tree= 0, node=169, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=170, feature= 9, thr= 5.61, gain=0.007149 tree= 0, node=171, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=172, feature= 6, thr= 58.29, gain=0.175730 tree= 0, node=173, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=174, feature= 0, thr= 73.33, gain=0.054012 tree= 0, node=175, feature=11, thr= 9.06, gain=0.541116 tree= 0, node=176, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=177, feature= 7, thr= 67.06, gain=0.321696 tree= 0, node=180, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=181, feature= 0, thr= 60.78, gain=0.098830 tree= 0, node=184, feature= 9, thr= 18.55, gain=0.134335 tree= 0, node=185, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=186, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=187, feature= 1, thr= 79.29, gain=0.678954 tree= 0, node=190, feature= 4, thr= 48.04, gain=0.291818 tree= 0, node=191, feature=11, thr= 39.69, gain=0.517478 tree= 0, node=206, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=207, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=214, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=215, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=216, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=217, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=230, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=231, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=238, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=239, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=290, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=291, feature= 9, thr= 88.47, gain=0.008575 tree= 0, node=304, feature= 6, thr= 67.45, gain=0.250919 tree= 0, node=305, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=310, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=311, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=336, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=337, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=340, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=341, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=344, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=345, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=348, feature= 1, thr= 89.59, gain=0.025926 tree= 0, node=349, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=350, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=351, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=354, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=355, feature= 3, thr= 89.02, gain=0.028237 tree= 0, node=362, feature= 8, thr= 24.51, gain=0.021367 tree= 0, node=363, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=368, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=369, feature=14, thr= 52.94, gain=0.111623 tree= 0, node=374, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=375, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=380, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=381, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=382, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=383, feature= 2, thr= 45.71, gain=0.103275 tree= 0, node=582, feature= 7, thr= 17.69, gain=0.008314

tree= 0, node=583, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=608, feature= 1, thr= 81.37, gain=0.056120 tree= 0, node=609, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=696, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=697, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=710, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=711, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=724, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=725, feature=15, thr= 9.12, gain=0.021405 tree= 0, node=738, feature= 6, thr= 21.57, gain=0.053910 tree= 0, node=739, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=766, feature= 1, thr= 66.67, gain=0.077022 tree= 0, node=767, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1164, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1165, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1216, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1217, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1450, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1451, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1476, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1477, feature= 3, thr= 99.12, gain=0.041635 tree= 0, node=1532, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=1533, feature= 2, thr= 41.47, gain=0.067329 tree= 0, node=2954, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=2955, feature= 2, thr= 86.33, gain=0.018695 tree= 0, node=3066, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=3067, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=5910, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node=5911, feature=-1, thr= -1.00, gain=-1.000000

dtree pendigits_training pendigits_test randomized 50

tree= 0, node= 1, feature=11, thr= 35.29, gain=0.466267 tree= 0, node= 2, feature= 6, thr= 25.49, gain=0.544787 tree= 0, node= 3, feature= 4, thr= 35.29, gain=0.579050 tree= 0, node= 4, feature= 7, thr= 47.06, gain=0.433869 tree= 0, node= 5, feature= 2, thr= 56.86, gain=0.057671 tree= 0, node= 6, feature=10, thr= 47.06, gain=0.114410 tree= 0, node= 7, feature= 4, thr= 66.12, gain=0.113125 tree= 0, node= 8, feature=10, thr= 35.29, gain=0.176811 tree= 0, node= 9, feature= 1, thr= 79.06, gain=0.351537 tree= 0, node= 10, feature= 4, thr= 45.10, gain=0.303523 tree= 0, node= 11, feature= 2, thr= 97.47, gain=0.086565 tree= 0, node= 12, feature= 3, thr= 87.06, gain=0.741230 tree= 0, node= 13, feature= 9, thr= 64.71, gain=0.347407 tree= 0, node= 14, feature= 5, thr= 58.82, gain=0.686547 tree= 0, node= 15, feature= 2, thr= 64.71, gain=0.109142 tree= 0, node= 16, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 17, feature= 7, thr= 10.14, gain=0.096970 tree= 0, node= 18, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 19, feature=14, thr= 1.96, gain=0.292041 tree= 0, node= 20, feature= 6, thr= 40.51, gain=0.389196 tree= 0, node= 21, feature= 4, thr= 77.76, gain=0.161652 tree= 0, node= 22, feature= 5, thr= 69.41, gain=0.175666 tree= 0, node= 23, feature= 3, thr= 99.29, gain=0.319967 tree= 0, node= 24, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 25, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 26, feature= 7, thr= 15.53, gain=0.855243 tree= 0, node= 27, feature= 6, thr= 47.06, gain=0.313986 tree= 0, node= 28, feature= 3, thr= 45.10, gain=0.469823 tree= 0, node= 29, feature= 5, thr= 94.37, gain=0.204257 tree= 0, node= 30, feature=12, thr= 54.90, gain=0.348753 tree= 0, node= 31, feature=10, thr= 44.69, gain=0.226163 tree= 0, node= 34, feature= 6, thr= 24.02, gain=0.032709 tree= 0, node= 35, feature= 2, thr= 44.84, gain=0.032624 tree= 0, node= 38, feature= 9, thr= 35.02, gain=0.262018 tree= 0, node= 39, feature= 9, thr= 30.04, gain=0.606504 tree= 0, node= 40, feature=13, thr= 16.39, gain=0.890492 tree= 0, node= 41, feature=13, thr= 14.65, gain=0.961635 tree= 0, node= 42, feature= 1, thr= 89.65, gain=0.254476 tree= 0, node= 43, feature=11, thr= 4.12, gain=0.318670 tree= 0, node= 44, feature= 2, thr= 67.20, gain=0.059830 tree= 0, node= 45, feature=13, thr= 21.88, gain=0.687648 tree= 0, node= 46, feature=-1, thr= -1.00, gain=-1.000000 tree= 0, node= 47, feature=13, thr= 17.65, gain=0.632921 tree= 0, node= 52, feature= 4, thr= 18.53, gain=0.051262 tree= 0, node= 53, feature=10, thr= 97.18, gain=0.031543 tree= 0, node= 54, feature=12, thr= 51.37, gain=0.084963 tree= 0, node= 55, feature= 4, thr= 27.45, gain=0.053497 tree= 0, node= 56, feature= 1, thr= 3.92, gain=0.265475 tree= 0, node= 57, feature= 3, thr= 78.82, gain=0.313240 tree= 0, node= 58, feature=13, thr= 41.18, gain=0.411418 tree= 0, node= 59, feature= 4, thr= 48.35, gain=0.126247 tree= 0, node= 60, feature= 1, thr= 76.47, gain=0.679991 tree= 0, node= 61, feature=10, thr= 64.61, gain=0.236322 tree= 0, node= 62, feature=-1, thr= -1.00, gain=-1.000000

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dtree pendigits_training pendigits_test forest3 50

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tree= 0, node= 26, feature=10, thr= 47.06, gain=0.265793
tree= 0, node= 27, feature= 3, thr= 82.16, gain=0.382191

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tree= 2, node= 48, feature= 4, thr= 30.39, gain=0.097112
tree= 2, node= 49, feature=15, thr= 68.67, gain=0.721928
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tree= 2, node= 61, feature= 6, thr= 7.53, gain=0.370695
tree= 2, node= 62, feature=15, thr= 0.25, gain=0.096932
tree= 2, node= 63, feature= 8, thr= 56.59, gain=0.165000
tree= 2, node= 66, feature=15, thr= 12.55, gain=0.181245
tree= 2, node= 67, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node= 72, feature=13, thr= 9.73, gain=0.338414
tree= 2, node= 73, feature= 5, thr= 72.47, gain=0.336888
tree= 2, node= 74, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node= 75, feature= 9, thr= 61.73, gain=0.512548
tree= 2, node= 76, feature= 6, thr= 63.73, gain=0.554832
tree= 2, node= 77, feature= 3, thr= 89.02, gain=0.167785
tree= 2, node= 78, feature=15, thr= 47.06, gain=0.336131
tree= 2, node= 79, feature=15, thr= 21.57, gain=0.884892
tree= 2, node= 80, feature=14, thr= 39.22, gain=0.449633
tree= 2, node= 81, feature=13, thr= 87.84, gain=0.099212
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tree= 2, node= 84, feature= 6, thr= 36.71, gain=0.663716
tree= 2, node= 85, feature= 1, thr= 99.02, gain=0.058430
tree= 2, node= 86, feature=11, thr= 58.82, gain=0.232470
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tree= 2, node= 95, feature= 9, thr= 65.49, gain=0.147399
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tree= 2, node=117, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=124, feature=13, thr= 17.67, gain=0.222224
tree= 2, node=125, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=126, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=133, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=142, feature=15, thr= 47.88, gain=0.012517
tree= 2, node=143, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=144, feature= 8, thr= 60.59, gain=0.058344
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tree= 2, node=146, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=147, feature= 8, thr= 79.22, gain=0.201744
tree= 2, node=150, feature= 1, thr= 98.16, gain=0.278070
tree= 2, node=151, feature=14, thr= 1.14, gain=0.083862
tree= 2, node=152, feature=15, thr= 19.22, gain=0.176777
tree= 2, node=153, feature=13, thr= 11.80, gain=0.509083
tree= 2, node=154, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=155, feature= 0, thr= 5.88, gain=0.558770
tree= 2, node=156, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=158, feature= 3, thr= 91.59, gain=0.163626
tree= 2, node=159, feature=12, thr= 28.00, gain=0.025704
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tree= 2, node=162, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=163, feature= 3, thr= 44.20, gain=0.208862
tree= 2, node=166, feature= 0, thr= 98.04, gain=0.173781
tree= 2, node=167, feature= 3, thr= 94.12, gain=0.436535
tree= 2, node=168, feature=12, thr= 60.04, gain=0.071032
tree= 2, node=169, feature=11, thr= 64.29, gain=0.326797
tree= 2, node=170, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=171, feature= 3, thr= 70.94, gain=0.340337
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tree= 2, node=295, feature=10, thr= 86.35, gain=0.189590 tree= 2, node=300, feature=10, thr= 79.10, gain=0.126691 tree= 2, node=301, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=302, feature= 3, thr= 96.94, gain=0.106551 tree= 2, node=303, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=304, feature=12, thr= 48.00, gain=0.541003 tree= 2, node=305, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=306, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=307, feature=15, thr= 11.24, gain=0.137099 tree= 2, node=310, feature=12, thr= 51.45, gain=0.051491 tree= 2, node=311, feature=12, thr= 29.65, gain=0.541726 tree= 2, node=314, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=315, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=316, feature= 3, thr= 76.41, gain=0.116147 tree= 2, node=317, feature= 6, thr= 46.31, gain=0.019535 tree= 2, node=318, feature=13, thr= 57.18, gain=0.109286 tree= 2, node=319, feature= 4, thr= 51.76, gain=0.104859 tree= 2, node=326, feature=12, thr= 40.65, gain=0.077090 tree= 2, node=327, feature= 2, thr= 12.29, gain=0.279528 tree= 2, node=332, feature=11, thr= 64.71, gain=0.218598 tree= 2, node=333, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=334, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=335, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=336, feature=14, thr= 21.57, gain=0.597059 tree= 2, node=337, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=338, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=339, feature= 5, thr= 38.33, gain=0.313813 tree= 2, node=342, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=343, feature= 5, thr= 30.45, gain=0.376020

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tree= 2, node=347, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=379, feature= 2, thr= 30.88, gain=0.106356
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tree= 2, node=600, feature= 3, thr= 85.12, gain=0.294784
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tree= 2, node=997, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=1505, feature=-1, thr= -1.00, gain=-1.000000
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tree= 2, node=2556, feature=-1, thr= -1.00, gain=-1.000000
```

tree= 2, node=2557, feature= 6, thr= 97.33, gain=0.028971 tree= 2, node=3034, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=3035, feature= 3, thr= 79.53, gain=0.560044 tree= 2, node=3036, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=3037, feature= 2, thr= 40.24, gain=0.019650 tree= 2, node=3992, feature= 8, thr= 84.41, gain=0.068105 tree= 2, node=3993, feature= 5, thr= 26.82, gain=0.048708 tree= 2, node=3994, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=3995, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=4636, feature= 2, thr= 96.06, gain=0.026162 tree= 2, node=4637, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=4638, feature= 6, thr= 46.31, gain=0.006432 tree= 2, node=4639, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=4984, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=4985, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=5078, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=5079, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=5080, feature= 3, thr=100.00, gain=0.000000 tree= 2, node=5081, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=5082, feature= 4, thr= 93.55, gain=0.023301 tree= 2, node=5083, feature= 7, thr= 81.51, gain=0.162326 tree= 2, node=5114, feature=14, thr= 35.29, gain=0.036875 tree= 2, node=5115, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=6070, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=6071, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=6074, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=6075, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=7984, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=7985, feature= 5, thr= 60.41, gain=0.141441

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tree= 2, node=7986, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=7987, feature= 7, thr= 55.00, gain=0.102948
tree= 2, node=9272, feature= 0, thr= 35.88, gain=0.006073
tree= 2, node=9273, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=9276, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=9277, feature= 0, thr= 34.57, gain=0.013376
tree= 2, node=10160, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=10161, feature= 4, thr= 80.59, gain=0.119129
tree= 2, node=10164, feature= 0, thr= 3.24, gain=0.111348
tree= 2, node=10165, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=10166, feature= 7, thr= 59.39, gain=0.155090
tree= 2, node=10167, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=10228, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=10229, feature= 3, thr= 99.12, gain=0.000560
tree= 2, node=15970, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=15971, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=15974, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=15975, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=18544, feature= 2, thr= 63.35, gain=0.016233
tree= 2, node=18545, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=18554, feature=10, thr= 99.06, gain=0.002661
tree= 2, node=18555, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=20322, feature= 7, thr= 36.33, gain=0.244910
tree= 2, node=20323, feature= 1, thr= 89.53, gain=0.033626
tree= 2, node=20328, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=20329, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=20332, feature=-1, thr= -1.00, gain=-1.000000
tree= 2, node=20333, feature= 0, thr= 1.25, gain=0.017621
tree= 2, node=20458, feature=-1, thr= -1.00, gain=-1.000000
```

tree= 2, node=20459, feature= 9, thr= 0.00, gain=0.000000 tree= 2, node=37088, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=37089, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=37108, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=37109, feature= 2, thr= 43.71, gain=0.013569 tree= 2, node=40644, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40645, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40646, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40647, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40666, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40667, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40918, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=40919, feature=13, thr= 27.35, gain=0.020615 tree= 2, node=74218, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=74219, feature=12, thr= 38.18, gain=0.146324 tree= 2, node=81838, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=81839, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=148438, feature=-1, thr= -1.00, gain=-1.000000 tree= 2, node=148439, feature=-1, thr= -1.00, gain=-1.000000 classification accuracy=0.8459