

dtree pendigits_training pendigits_test optimized 50

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tree= 0, node= 1, feature=15, thr= 25.00, gain=0.622315
tree= 0, node= 2, feature= 4, thr= 41.00, gain=0.587774
tree= 0, node= 4, feature= 9, thr= 19.00, gain=0.694970
tree= 0, node= 8, feature=14, thr= 54.00, gain=0.484033
tree= 0, node=16, feature= 0, thr= 16.00, gain=0.024945
tree= 0, node=32, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=33, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=17, feature=10, thr= 47.00, gain=0.993570
tree= 0, node=34, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=35, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 9, feature= 5, thr= 64.00, gain=0.615180
tree= 0, node=18, feature=15, thr= 1.00, gain=0.207475
tree= 0, node=36, feature= 9, thr= 85.00, gain=0.106175
tree= 0, node=72, feature= 5, thr= 2.00, gain=0.016354
tree= 0, node=144, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=145, feature= 9, thr= 20.00, gain=0.010906
tree= 0, node=290, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=291, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=73, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=37, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=19, feature= 9, thr= 61.00, gain=0.512832
tree= 0, node=38, feature=13, thr= 18.00, gain=0.744533
tree= 0, node=76, feature=10, thr= 60.00, gain=0.727820
tree= 0, node=152, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=153, feature= 7, thr= 73.00, gain=0.507666
tree= 0, node=306, feature= 1, thr= 88.00, gain=0.236640
tree= 0, node=612, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=613, feature= 2, thr= 1.00, gain=0.094084
tree= 0, node=1226, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=307, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=77, feature= 5, thr= 77.00, gain=0.329846
tree= 0, node=154, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=155, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=39, feature= 0, thr= 39.00, gain=0.190923
tree= 0, node=78, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=79, feature= 1, thr= 93.00, gain=0.107028
tree= 0, node=158, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=159, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 5, feature=10, thr= 39.00, gain=0.621049
tree= 0, node=10, feature=14, thr= 37.00, gain=0.224463
tree= 0, node=20, feature=12, thr= 26.00, gain=0.721928
tree= 0, node=40, feature= 3, thr= 96.00, gain=0.333254
tree= 0, node=80, feature= 5, thr= 70.00, gain=0.242292
tree= 0, node=160, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=21, feature= 8, thr= 34.00, gain=0.130605
tree= 0, node=42, feature= 9, thr= 2.00, gain=0.072210
tree= 0, node=84, feature= 8, thr= 12.00, gain=0.367390
tree= 0, node=168, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=169, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=85, feature= 7, thr= 74.00, gain=0.050921
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tree= 0, node=170, feature=12, thr= 12.00, gain=0.022573
tree= 0, node=340, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node= 43, feature= 6, thr= 65.00, gain=0.242832
tree= 0, node= 86, feature=12, thr= 56.00, gain=0.374389
tree= 0, node=172, feature=13, thr= 17.00, gain=0.160823
tree= 0, node=344, feature= 6, thr= 59.00, gain=0.160531
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tree= 0, node=173, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 87, feature= 8, thr= 49.00, gain=0.202813
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tree= 0, node=348, feature= 0, thr= 73.00, gain=0.049479
tree= 0, node=696, feature= 1, thr= 90.00, gain=0.024403
tree= 0, node=1392, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1393, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=702, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=703, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 11, feature= 3, thr= 90.00, gain=0.683024
tree= 0, node= 22, feature= 6, thr= 72.00, gain=0.526344
tree= 0, node= 44, feature=14, thr= 96.00, gain=0.344882
tree= 0, node= 88, feature= 1, thr= 41.00, gain=0.354420
tree= 0, node=176, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=177, feature= 7, thr= 67.00, gain=0.355632
tree= 0, node=354, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node= 45, feature= 1, thr= 80.00, gain=0.334381
tree= 0, node= 90, feature=15, thr= 10.00, gain=0.133354
tree= 0, node=180, feature= 0, thr= 60.00, gain=0.032594
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tree= 0, node=720, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=182, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=184, feature= 9, thr= 29.00, gain=0.468074
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tree= 0, node=185, feature= 9, thr= 21.00, gain=0.690429
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tree= 0, node=371, feature= 1, thr= 81.00, gain=0.612101
tree= 0, node=742, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=743, feature= 8, thr= 98.00, gain=0.618993
tree= 0, node=1486, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1487, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 93, feature=14, thr= 43.00, gain=0.142189
tree= 0, node=186, feature= 2, thr= 90.00, gain=0.128421
tree= 0, node=372, feature= 9, thr= 9.00, gain=0.054826
tree= 0, node=744, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=745, feature= 3, thr= 98.00, gain=0.050882
tree= 0, node=1490, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1491, feature=12, thr= 1.00, gain=0.017939
tree= 0, node=2982, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=2983, feature= 2, thr= 87.00, gain=0.008569
tree= 0, node=5966, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=5967, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=373, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=187, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 47, feature= 5, thr= 90.00, gain=0.788950
tree= 0, node= 94, feature= 2, thr= 86.00, gain=0.087281
tree= 0, node=188, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=189, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 95, feature= 6, thr= 70.00, gain=0.980117
tree= 0, node=190, feature= 4, thr= 49.00, gain=0.309543
tree= 0, node=380, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=191, feature=11, thr= 40.00, gain=0.547459
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tree= 0, node=383, feature= 2, thr= 46.00, gain=0.172037
tree= 0, node=766, feature= 1, thr= 67.00, gain=0.074751
tree= 0, node=1532, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1533, feature= 2, thr= 42.00, gain=0.065426
tree= 0, node=3066, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node= 3, feature=13, thr= 58.00, gain=0.693090
tree= 0, node= 6, feature= 0, thr= 35.00, gain=0.702301
tree= 0, node= 12, feature=14, thr= 39.00, gain=0.251516
tree= 0, node= 24, feature= 1, thr= 84.00, gain=0.544247
tree= 0, node= 48, feature= 8, thr= 76.00, gain=0.515947
tree= 0, node= 96, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 97, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 49, feature= 6, thr= 50.00, gain=0.637785
tree= 0, node= 98, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 99, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 25, feature=13, thr= 1.00, gain=0.118655
tree= 0, node= 50, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 51, feature= 1, thr= 61.00, gain=0.061946
tree= 0, node=102, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=103, feature= 8, thr= 3.00, gain=0.027338
tree= 0, node=206, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=207, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 13, feature=10, thr= 31.00, gain=0.575440
tree= 0, node= 26, feature=15, thr= 32.00, gain=0.226363
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tree= 0, node= 53, feature= 0, thr= 54.00, gain=0.134851
tree= 0, node=106, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=107, feature=14, thr= 1.00, gain=0.045886
tree= 0, node=214, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=215, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 27, feature= 9, thr= 20.00, gain=0.423744
tree= 0, node= 54, feature= 6, thr= 41.00, gain=0.275487
tree= 0, node=108, feature=14, thr= 60.00, gain=0.177126
tree= 0, node=216, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=217, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=109, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 55, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 7, feature= 8, thr= 58.00, gain=0.797073
tree= 0, node= 14, feature=14, thr= 96.00, gain=0.718251
tree= 0, node= 28, feature=11, thr= 32.00, gain=0.189660
tree= 0, node= 56, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 57, feature=12, thr= 21.00, gain=0.158343
tree= 0, node=114, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=115, feature= 1, thr= 26.00, gain=0.028826
tree= 0, node=230, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=231, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 29, feature=13, thr= 72.00, gain=0.394625
tree= 0, node= 58, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 59, feature= 5, thr= 55.00, gain=0.006884
tree= 0, node=118, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=119, feature= 6, thr= 45.00, gain=0.097300
tree= 0, node=238, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=239, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 15, feature= 7, thr= 27.00, gain=0.229647
tree= 0, node= 30, feature= 2, thr= 54.00, gain=0.084902
tree= 0, node= 60, feature= 6, thr= 98.00, gain=0.025547
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tree= 0, node= 31, feature= 3, thr= 27.00, gain=0.959687
tree= 0, node= 62, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 63, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.8562

dtree pendigits_training pendigits_test randomized 50

tree= 0, node= 1, feature=16, thr= 5.00, gain=0.999574
tree= 0, node= 2, feature= 2, thr= 23.00, gain=0.357515
tree= 0, node= 4, feature= 0, thr= 1.00, gain=0.200236
tree= 0, node= 8, feature=13, thr= 17.00, gain=0.742340
tree= 0, node=16, feature= 0, thr= 0.00, gain=0.000000
tree= 0, node=32, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=33, feature= 1, thr= 65.00, gain=0.195915
tree= 0, node=66, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=67, feature=15, thr= 5.00, gain=0.024024
tree= 0, node=134, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=135, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=17, feature= 6, thr= 53.00, gain=0.467340
tree= 0, node=34, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=35, feature= 8, thr= 88.00, gain=0.199753
tree= 0, node=70, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=71, feature= 5, thr= 23.00, gain=0.954434
tree= 0, node=142, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=143, feature=10, thr= 89.00, gain=0.077481
tree= 0, node=286, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=287, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 9, feature= 4, thr= 25.00, gain=0.162515
tree= 0, node= 18, feature= 0, thr= 82.00, gain=0.024197
tree= 0, node= 36, feature= 9, thr= 35.00, gain=0.286107
tree= 0, node= 72, feature=12, thr= 53.00, gain=0.039423
tree= 0, node=144, feature=14, thr= 35.00, gain=0.391244
tree= 0, node=288, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=145, feature=15, thr= 1.00, gain=0.687835
tree= 0, node=290, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=291, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 73, feature= 6, thr= 60.00, gain=0.138717
tree= 0, node=146, feature= 2, thr= 1.00, gain=0.030220
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tree= 0, node=587, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=147, feature=11, thr= 78.00, gain=0.403508
tree= 0, node=294, feature=11, thr= 33.00, gain=0.074149
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tree= 0, node=589, feature= 8, thr= 71.00, gain=0.131107
tree= 0, node=1178, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1179, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=295, feature=10, thr= 76.00, gain=0.180427
tree= 0, node=590, feature=14, thr= 14.00, gain=0.448215
tree= 0, node=1180, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1181, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=591, feature= 5, thr= 22.00, gain=0.470626
tree= 0, node=1182, feature= 2, thr= 1.00, gain=0.009788
tree= 0, node=2364, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=2365, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1183, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 37, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 19, feature= 0, thr= 9.00, gain=0.053043
tree= 0, node= 38, feature= 2, thr= 3.00, gain=0.291846
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tree= 0, node= 77, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 39, feature= 6, thr= 56.00, gain=0.274890
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tree= 0, node=319, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 5, feature= 7, thr= 49.00, gain=0.408850
tree= 0, node= 10, feature= 1, thr= 97.00, gain=0.605142
tree= 0, node= 20, feature= 0, thr= 64.00, gain=0.183829
tree= 0, node= 40, feature= 4, thr= 41.00, gain=0.191528
tree= 0, node= 80, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 81, feature= 9, thr= 28.00, gain=0.294582
tree= 0, node=162, feature= 5, thr= 81.00, gain=0.057479
tree= 0, node=324, feature= 7, thr= 37.00, gain=0.044363
tree= 0, node=648, feature=13, thr= 17.00, gain=0.042090
tree= 0, node=1296, feature= 8, thr= 17.00, gain=0.331612
tree= 0, node=2592, feature=13, thr= 7.00, gain=0.013358
tree= 0, node=5184, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=5185, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2593, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1297, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=649, feature= 8, thr= 54.00, gain=0.076292
tree= 0, node=1298, feature=14, thr= 98.00, gain=0.000412
tree= 0, node=2596, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=2597, feature=12, thr= 36.00, gain=0.051791
tree= 0, node=5194, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=5195, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1299, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=325, feature=12, thr= 55.00, gain=0.101630
tree= 0, node=650, feature=10, thr= 1.00, gain=0.174520
tree= 0, node=1300, feature=14, thr= 95.00, gain=0.027302
tree= 0, node=2600, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=2601, feature= 7, thr= 35.00, gain=0.118823
tree= 0, node=5202, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=5203, feature=11, thr= 14.00, gain=0.036395
tree= 0, node=10406, feature= 6, thr= 68.00, gain=0.131526
tree= 0, node=20812, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=10407, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1301, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=651, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=163, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 41, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 21, feature=11, thr= 29.00, gain=0.315656
tree= 0, node= 42, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 43, feature=12, thr= 55.00, gain=0.037542
tree= 0, node= 86, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 87, feature= 3, thr= 75.00, gain=0.032512
tree= 0, node=174, feature= 6, thr= 25.00, gain=0.014874
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tree= 0, node=349, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=175, feature= 6, thr= 1.00, gain=0.095204
tree= 0, node=350, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=351, feature= 1, thr= 99.00, gain=0.029720
tree= 0, node=702, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=703, feature=13, thr= 48.00, gain=0.665580
tree= 0, node=1406, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=1407, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node= 22, feature= 8, thr= 49.00, gain=0.221226
tree= 0, node= 44, feature= 4, thr= 49.00, gain=0.138931
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tree= 0, node= 89, feature= 2, thr= 50.00, gain=0.068427
tree= 0, node=178, feature= 0, thr= 24.00, gain=0.028980
tree= 0, node=356, feature= 7, thr= 71.00, gain=0.130465
tree= 0, node=712, feature= 4, thr= 63.00, gain=0.039672
tree= 0, node=1424, feature= 5, thr= 93.00, gain=0.331846
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tree= 0, node=1425, feature= 2, thr= 30.00, gain=0.009760
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tree= 0, node=2851, feature= 0, thr= 20.00, gain=0.036360
tree= 0, node=5702, feature=15, thr= 3.00, gain=0.031345
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tree= 0, node=2871, feature= 0, thr= 8.00, gain=0.072104
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tree= 0, node= 45, feature=15, thr= 12.00, gain=0.092274
tree= 0, node= 90, feature=13, thr= 16.00, gain=0.225611
tree= 0, node=180, feature= 5, thr= 98.00, gain=0.097647
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tree= 0, node=24282, feature= 4, thr= 8.00, gain=0.131107

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tree= 0, node=51, feature= 7, thr= 90.00, gain=0.121915
tree= 0, node=102, feature= 6, thr= 67.00, gain=0.097281
tree= 0, node=204, feature=14, thr= 84.00, gain=0.628748
tree= 0, node=408, feature= 6, thr= 47.00, gain=0.045525
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tree= 0, node=819, feature= 5, thr= 55.00, gain=0.014839
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tree= 0, node=104, feature= 4, thr= 65.00, gain=0.031366
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tree= 0, node=108, feature=11, thr= 29.00, gain=0.189127
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tree= 0, node=457, feature= 1, thr= 88.00, gain=0.016038
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tree= 0, node=921, feature= 6, thr= 25.00, gain=0.325522
tree= 0, node=1842, feature= 1, thr= 98.00, gain=0.315765
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tree= 0, node=463, feature=12, thr= 70.00, gain=0.041397
tree= 0, node=926, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=1854, feature= 5, thr= 64.00, gain=0.755942
tree= 0, node=3708, feature=16, thr= 7.00, gain=0.549911
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tree= 0, node= 60, feature=10, thr= 98.00, gain=0.082507
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tree= 0, node= 62, feature= 8, thr= 27.00, gain=0.077989
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tree= 0, node=251, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 63, feature=15, thr= 16.00, gain=0.266300
tree= 0, node=126, feature= 8, thr= 68.00, gain=0.240548
tree= 0, node=252, feature=14, thr= 2.00, gain=0.264247
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tree= 0, node=505, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=253, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=127, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.7910

dtree pendigits_training pendigits_test forest3 50

tree= 0, node= 1, feature=15, thr= 25.00, gain=0.622315
tree= 0, node= 2, feature= 3, thr= 92.00, gain=0.506729
tree= 0, node= 4, feature= 6, thr= 56.00, gain=0.378750
tree= 0, node= 8, feature= 1, thr= 98.00, gain=0.629187
tree= 0, node= 16, feature=14, thr= 98.00, gain=0.376152
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tree= 0, node= 64, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 65, feature=10, thr= 98.00, gain=0.027241
tree= 0, node=130, feature=13, thr= 12.00, gain=0.085105
tree= 0, node=260, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=261, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=131, feature= 7, thr= 70.00, gain=0.151097
tree= 0, node=262, feature=-1, thr= -1.00, gain=0.000000
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tree= 0, node=526, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node=527, feature=-1, thr= -1.00, gain=0.000000
tree= 0, node= 33, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 17, feature= 1, thr= 99.00, gain=0.040999
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tree= 2, node=176, feature= 4, thr= 8.00, gain=0.037628
tree= 2, node=352, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=353, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=177, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 89, feature=14, thr= 27.00, gain=0.271582
tree= 2, node=178, feature=11, thr= 51.00, gain=0.733358
tree= 2, node=356, feature=10, thr= 94.00, gain=0.091233
tree= 2, node=712, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=713, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=357, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=179, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 45, feature= 6, thr= 44.00, gain=0.223682
tree= 2, node= 90, feature= 5, thr= 39.00, gain=0.454771
tree= 2, node=180, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=181, feature=10, thr= 75.00, gain=0.146672
tree= 2, node=362, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=363, feature=11, thr= 23.00, gain=0.677928
tree= 2, node=726, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=727, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 91, feature= 2, thr= 25.00, gain=0.066577
tree= 2, node=182, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=183, feature= 8, thr= 47.00, gain=0.236121
tree= 2, node=366, feature= 2, thr= 38.00, gain=0.034144
tree= 2, node=732, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=733, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=367, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 23, feature=13, thr= 17.00, gain=0.422886
tree= 2, node= 46, feature= 2, thr= 92.00, gain=0.386432
tree= 2, node= 92, feature=11, thr= 1.00, gain=0.199598
tree= 2, node=184, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=185, feature= 4, thr= 82.00, gain=0.084648
tree= 2, node=370, feature= 2, thr= 69.00, gain=0.206619
tree= 2, node=740, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=741, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=371, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 93, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 47, feature= 1, thr= 98.00, gain=0.464249
tree= 2, node= 94, feature= 9, thr= 76.00, gain=0.314757
tree= 2, node=188, feature=16, thr= 5.00, gain=0.601143
tree= 2, node=376, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=377, feature= 2, thr= 55.00, gain=0.165444
tree= 2, node=754, feature= 7, thr= 61.00, gain=0.038942
tree= 2, node=1508, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1509, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=755, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=189, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 95, feature= 3, thr= 95.00, gain=0.160831
tree= 2, node=190, feature= 1, thr= 99.00, gain=0.000000
tree= 2, node=380, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=381, feature=12, thr= 63.00, gain=0.048912
tree= 2, node=762, feature= 0, thr= 45.00, gain=0.096171
tree= 2, node=1524, feature=11, thr= 43.00, gain=0.223526
tree= 2, node=3048, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=3049, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1525, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=763, feature= 3, thr= 92.00, gain=0.013450
tree= 2, node=1526, feature=13, thr= 55.00, gain=0.033270
tree= 2, node=3052, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=3053, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1527, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=191, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 3, feature=13, thr= 45.00, gain=0.483835
tree= 2, node= 6, feature= 2, thr= 66.00, gain=0.174729
tree= 2, node= 12, feature= 4, thr= 37.00, gain=0.279297
tree= 2, node= 24, feature=11, thr= 39.00, gain=0.608196
tree= 2, node= 48, feature= 6, thr= 30.00, gain=0.504891
tree= 2, node= 96, feature= 0, thr= 87.00, gain=0.091615
tree= 2, node=192, feature= 3, thr= 99.00, gain=0.059465
tree= 2, node=384, feature= 6, thr= 1.00, gain=0.085188
tree= 2, node=768, feature= 5, thr= 63.00, gain=0.112815
tree= 2, node=1536, feature= 3, thr= 88.00, gain=0.032536
tree= 2, node=3072, feature= 0, thr= 82.00, gain=0.035352
tree= 2, node=6144, feature=15, thr= 1.00, gain=0.655024
tree= 2, node=12288, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=12289, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=6145, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=3073, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1537, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=769, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=385, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=193, feature= 7, thr= 42.00, gain=0.386692
tree= 2, node=386, feature= 0, thr= 94.00, gain=0.010074
tree= 2, node=772, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=773, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=387, feature= 5, thr= 79.00, gain=0.375494
tree= 2, node=774, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=775, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 97, feature= 1, thr= 90.00, gain=0.428305
tree= 2, node=194, feature= 0, thr= 77.00, gain=0.038220
tree= 2, node=388, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=389, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=195, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 49, feature= 8, thr= 72.00, gain=0.073453
tree= 2, node= 98, feature= 5, thr= 71.00, gain=0.386201
tree= 2, node=196, feature=13, thr= 40.00, gain=0.138227
tree= 2, node=392, feature= 8, thr= 67.00, gain=0.052950
tree= 2, node=784, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=785, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=393, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=197, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 99, feature= 0, thr= 79.00, gain=0.392129
tree= 2, node=198, feature= 9, thr= 73.00, gain=0.293660
tree= 2, node=396, feature=11, thr= 48.00, gain=0.024351
tree= 2, node=792, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=793, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=397, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=199, feature=14, thr= 82.00, gain=0.044497
tree= 2, node=398, feature= 8, thr= 83.00, gain=0.087677
tree= 2, node=796, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=797, feature= 8, thr= 96.00, gain=0.033570
tree= 2, node=1594, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1595, feature=14, thr= 1.00, gain=0.068796
tree= 2, node=3190, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=3191, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=399, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 25, feature= 8, thr= 66.00, gain=0.460010
tree= 2, node= 50, feature= 8, thr= 54.00, gain=0.119545
tree= 2, node=100, feature= 5, thr= 82.00, gain=0.235666
tree= 2, node=200, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=201, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=101, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 51, feature=11, thr= 32.00, gain=0.107571
tree= 2, node=102, feature= 9, thr= 1.00, gain=0.273769
tree= 2, node=204, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=205, feature= 4, thr= 84.00, gain=0.474252
tree= 2, node=410, feature= 6, thr= 66.00, gain=0.046632
tree= 2, node=820, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=821, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=411, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=103, feature= 6, thr= 89.00, gain=0.020380
tree= 2, node=206, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=207, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 13, feature=14, thr= 39.00, gain=0.456689
tree= 2, node= 26, feature= 9, thr= 27.00, gain=0.762800

tree= 2, node= 52, feature=14, thr= 1.00, gain=0.063289
tree= 2, node=104, feature= 7, thr= 47.00, gain=0.387889
tree= 2, node=208, feature=11, thr= 8.00, gain=0.029738
tree= 2, node=416, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=417, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=209, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=105, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 53, feature= 3, thr= 92.00, gain=0.191585
tree= 2, node=106, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=107, feature= 7, thr= 63.00, gain=0.275541
tree= 2, node=214, feature= 8, thr= 56.00, gain=0.215341
tree= 2, node=428, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=429, feature= 3, thr= 94.00, gain=0.013477
tree= 2, node=858, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=859, feature= 6, thr= 49.00, gain=0.482198
tree= 2, node=1718, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=1719, feature=14, thr= 0.00, gain=0.000000
tree= 2, node=3438, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=3439, feature=14, thr= 0.00, gain=0.000000
tree= 2, node=6878, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=6879, feature=16, thr= 4.00, gain=0.611552
tree= 2, node=13758, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=13759, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=215, feature=10, thr= 59.00, gain=0.297465
tree= 2, node=430, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=431, feature=16, thr= 6.00, gain=0.988111
tree= 2, node=862, feature= 9, thr= 48.00, gain=0.251198
tree= 2, node=1724, feature=-1, thr= -1.00, gain=0.000000
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tree= 2, node=863, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 27, feature=12, thr= 64.00, gain=0.943134
tree= 2, node= 54, feature=16, thr= 3.00, gain=0.878674
tree= 2, node=108, feature=13, thr= 11.00, gain=0.150762
tree= 2, node=216, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=217, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=109, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 55, feature=16, thr= 5.00, gain=0.386019
tree= 2, node=110, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=111, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 7, feature= 6, thr= 43.00, gain=0.289054
tree= 2, node= 14, feature= 5, thr= 47.00, gain=0.136896
tree= 2, node= 28, feature= 2, thr= 31.00, gain=0.220298
tree= 2, node= 56, feature= 7, thr= 3.00, gain=0.089166
tree= 2, node=112, feature=10, thr= 74.00, gain=0.741157

tree= 2, node=224, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=225, feature=12, thr= 51.00, gain=0.067360
tree= 2, node=450, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=451, feature= 6, thr= 39.00, gain=0.026987
tree= 2, node=902, feature= 1, thr= 84.00, gain=0.051407
tree= 2, node=1804, feature=-1, thr= -1.00, gain=0.000000
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tree= 2, node=903, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=113, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 57, feature=12, thr= 54.00, gain=0.631874
tree= 2, node=114, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=115, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 29, feature= 8, thr= 19.00, gain=0.243609
tree= 2, node= 58, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 59, feature= 6, thr= 26.00, gain=0.404107
tree= 2, node=118, feature=10, thr= 17.00, gain=0.237508
tree= 2, node=236, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=237, feature=11, thr= 33.00, gain=0.138070
tree= 2, node=474, feature= 9, thr= 0.00, gain=0.000000
tree= 2, node=948, feature=-1, thr= -1.00, gain=0.000000
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tree= 2, node=119, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 15, feature= 0, thr= 75.00, gain=0.115187
tree= 2, node= 30, feature=12, thr= 84.00, gain=0.253840
tree= 2, node= 60, feature= 9, thr= 21.00, gain=0.762994
tree= 2, node=120, feature=11, thr= 39.00, gain=0.525324
tree= 2, node=240, feature= 8, thr= 33.00, gain=0.063438
tree= 2, node=480, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=481, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=241, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=121, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 61, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 31, feature=14, thr= 33.00, gain=0.081287
tree= 2, node= 62, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node= 63, feature= 7, thr= 35.00, gain=0.085659
tree= 2, node=126, feature= 0, thr= 78.00, gain=0.035743
tree= 2, node=252, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=253, feature=-1, thr= -1.00, gain=0.000000
tree= 2, node=127, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.8476

