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Decision Tree Classification

Classification Accuracy

dtree pendigits_training pendigits_test optimized 50
classification accuracy=0.8382

dtree pendigits_training pendigits_test randomized 50
classification accuracy=0.6764

dtree pendigits_training pendigits_test forest3 50
classification accuracy=0.7556

Training Stage Output

optimized Full output of Training Data

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classification accuracy=0.8382

randomized Full output of Training Data

tree= 0, node= 1, feature= 9, thr= 29.41, gain=0.277800
tree= 0, node= 2, feature= 8, thr= 45.10, gain=0.221224
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ID= 1083, predicted= 8, true= 0, accuracy=0.00
ID= 1084, predicted= 5, true= 5, accuracy=1.00
ID= 1085, predicted= 5, true= 5, accuracy=1.00
ID= 1086, predicted= 8, true= 8, accuracy=1.00
ID= 1087, predicted= 7, true= 7, accuracy=1.00
ID= 1088, predicted= 9, true= 9, accuracy=1.00
ID= 1089, predicted= 3, true= 5, accuracy=0.00
ID= 1090, predicted= 7, true= 7, accuracy=1.00
ID= 1091, predicted= 2, true= 2, accuracy=1.00
ID= 1092, predicted= 6, true= 8, accuracy=0.00
ID= 1093, predicted= 9, true= 9, accuracy=1.00
ID= 1094, predicted= 6, true= 6, accuracy=1.00
ID= 1095, predicted= 4, true= 4, accuracy=1.00
ID= 1096, predicted= 7, true= 7, accuracy=1.00
ID= 1097, predicted= 1, true= 1, accuracy=1.00
ID= 1098, predicted= 2, true= 2, accuracy=1.00
ID= 1099, predicted= 7, true= 7, accuracy=1.00
ID= 1100, predicted= 2, true= 2, accuracy=1.00
ID= 1101, predicted= 5, true= 7, accuracy=0.00
ID= 1102, predicted= 6, true= 6, accuracy=1.00
ID= 1103, predicted= 2, true= 2, accuracy=1.00
ID= 1104, predicted= 8, true= 8, accuracy=1.00
ID= 1105, predicted= 8, true= 3, accuracy=0.00
ID= 1106, predicted= 5, true= 1, accuracy=0.00
ID= 1107, predicted= 0, true= 0, accuracy=1.00
ID= 1108, predicted= 2, true= 2, accuracy=1.00
ID= 1109, predicted= 2, true= 1, accuracy=0.00

ID= 1110, predicted= 9, true= 9, accuracy=1.00
ID= 1111, predicted= 5, true= 5, accuracy=1.00
ID= 1112, predicted= 0, true= 0, accuracy=1.00
ID= 1113, predicted= 9, true= 9, accuracy=1.00
ID= 1114, predicted= 1, true= 1, accuracy=1.00
ID= 1115, predicted= 6, true= 6, accuracy=1.00
ID= 1116, predicted= 8, true= 8, accuracy=1.00
ID= 1117, predicted= 7, true= 1, accuracy=0.00
ID= 1118, predicted= 2, true= 2, accuracy=1.00
ID= 1119, predicted= 4, true= 4, accuracy=1.00
ID= 1120, predicted= 1, true= 1, accuracy=1.00
ID= 1121, predicted= 4, true= 4, accuracy=1.00
ID= 1122, predicted= 6, true= 6, accuracy=1.00
ID= 1123, predicted= 4, true= 1, accuracy=0.00
ID= 1124, predicted= 8, true= 8, accuracy=1.00
ID= 1125, predicted= 7, true= 7, accuracy=1.00
ID= 1126, predicted= 9, true= 9, accuracy=1.00
ID= 1127, predicted= 2, true= 2, accuracy=1.00
ID= 1128, predicted= 1, true= 7, accuracy=0.00
ID= 1129, predicted= 8, true= 8, accuracy=1.00
ID= 1130, predicted= 3, true= 9, accuracy=0.00
ID= 1131, predicted= 3, true= 3, accuracy=1.00
ID= 1132, predicted= 3, true= 3, accuracy=1.00
ID= 1133, predicted= 2, true= 2, accuracy=1.00
ID= 1134, predicted= 8, true= 8, accuracy=1.00
ID= 1135, predicted= 4, true= 9, accuracy=0.00
ID= 1136, predicted= 3, true= 3, accuracy=1.00
ID= 1137, predicted= 4, true= 9, accuracy=0.00
ID= 1138, predicted= 5, true= 5, accuracy=1.00
ID= 1139, predicted= 8, true= 8, accuracy=1.00
ID= 1140, predicted= 4, true= 4, accuracy=1.00
ID= 1141, predicted= 9, true= 4, accuracy=0.00
ID= 1142, predicted= 5, true= 7, accuracy=0.00
ID= 1143, predicted= 3, true= 3, accuracy=1.00
ID= 1144, predicted= 6, true= 6, accuracy=1.00
ID= 1145, predicted= 5, true= 5, accuracy=1.00
ID= 1146, predicted= 7, true= 7, accuracy=1.00
ID= 1147, predicted= 2, true= 2, accuracy=1.00
ID= 1148, predicted= 7, true= 7, accuracy=1.00
ID= 1149, predicted= 6, true= 8, accuracy=0.00
ID= 1150, predicted= 9, true= 9, accuracy=1.00
ID= 1151, predicted= 7, true= 7, accuracy=1.00
ID= 1152, predicted= 8, true= 8, accuracy=1.00
ID= 1153, predicted= 0, true= 0, accuracy=1.00
ID= 1154, predicted= 8, true= 8, accuracy=1.00
ID= 1155, predicted= 6, true= 6, accuracy=1.00
ID= 1156, predicted= 4, true= 4, accuracy=1.00
ID= 1157, predicted= 1, true= 1, accuracy=1.00
ID= 1158, predicted= 2, true= 6, accuracy=0.00
ID= 1159, predicted= 0, true= 0, accuracy=1.00
ID= 1160, predicted= 4, true= 4, accuracy=1.00
ID= 1161, predicted= 9, true= 4, accuracy=0.00
ID= 1162, predicted= 3, true= 3, accuracy=1.00
ID= 1163, predicted= 3, true= 3, accuracy=1.00
ID= 1164, predicted= 1, true= 1, accuracy=1.00

ID= 1165, predicted= 3, true= 3, accuracy=1.00
ID= 1166, predicted= 2, true= 2, accuracy=1.00
ID= 1167, predicted= 7, true= 8, accuracy=0.00
ID= 1168, predicted= 8, true= 8, accuracy=1.00
ID= 1169, predicted= 6, true= 6, accuracy=1.00
ID= 1170, predicted= 5, true= 5, accuracy=1.00
ID= 1171, predicted= 8, true= 5, accuracy=0.00
ID= 1172, predicted= 2, true= 2, accuracy=1.00
ID= 1173, predicted= 5, true= 4, accuracy=0.00
ID= 1174, predicted= 1, true= 1, accuracy=1.00
ID= 1175, predicted= 0, true= 0, accuracy=1.00
ID= 1176, predicted= 9, true= 9, accuracy=1.00
ID= 1177, predicted= 6, true= 6, accuracy=1.00
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ID= 1179, predicted= 7, true= 7, accuracy=1.00
ID= 1180, predicted= 5, true= 2, accuracy=0.00
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ID= 1182, predicted= 2, true= 2, accuracy=1.00
ID= 1183, predicted= 2, true= 2, accuracy=1.00
ID= 1184, predicted= 7, true= 7, accuracy=1.00
ID= 1185, predicted= 8, true= 6, accuracy=0.00
ID= 1186, predicted= 9, true= 9, accuracy=1.00
ID= 1187, predicted= 6, true= 0, accuracy=0.00
ID= 1188, predicted= 2, true= 2, accuracy=1.00
ID= 1189, predicted= 3, true= 3, accuracy=1.00
ID= 1190, predicted= 2, true= 2, accuracy=1.00
ID= 1191, predicted= 6, true= 6, accuracy=1.00
ID= 1192, predicted= 3, true= 7, accuracy=0.00
ID= 1193, predicted= 3, true= 3, accuracy=1.00
ID= 1194, predicted= 7, true= 7, accuracy=1.00
ID= 1195, predicted= 2, true= 2, accuracy=1.00
ID= 1196, predicted= 8, true= 8, accuracy=1.00
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ID= 1201, predicted= 5, true= 5, accuracy=1.00
ID= 1202, predicted= 7, true= 7, accuracy=1.00
ID= 1203, predicted= 2, true= 1, accuracy=0.00
ID= 1204, predicted= 1, true= 1, accuracy=1.00
ID= 1205, predicted= 4, true= 4, accuracy=1.00
ID= 1206, predicted= 8, true= 8, accuracy=1.00
ID= 1207, predicted= 3, true= 9, accuracy=0.00
ID= 1208, predicted= 7, true= 7, accuracy=1.00
ID= 1209, predicted= 2, true= 2, accuracy=1.00
ID= 1210, predicted= 2, true= 0, accuracy=0.00
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ID= 1212, predicted= 4, true= 4, accuracy=1.00
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ID= 1214, predicted= 2, true= 2, accuracy=1.00
ID= 1215, predicted= 4, true= 4, accuracy=1.00
ID= 1216, predicted= 4, true= 9, accuracy=0.00
ID= 1217, predicted= 2, true= 1, accuracy=0.00
ID= 1218, predicted= 4, true= 4, accuracy=1.00
ID= 1219, predicted= 4, true= 4, accuracy=1.00

ID= 1220, predicted= 5, true= 8, accuracy=0.00
ID= 1221, predicted= 2, true= 2, accuracy=1.00
ID= 1222, predicted= 7, true= 7, accuracy=1.00
ID= 1223, predicted= 0, true= 0, accuracy=1.00
ID= 1224, predicted= 7, true= 7, accuracy=1.00
ID= 1225, predicted= 6, true= 6, accuracy=1.00
ID= 1226, predicted= 2, true= 2, accuracy=1.00
ID= 1227, predicted= 3, true= 3, accuracy=1.00
ID= 1228, predicted= 4, true= 4, accuracy=1.00
ID= 1229, predicted= 1, true= 1, accuracy=1.00
ID= 1230, predicted= 3, true= 3, accuracy=1.00
ID= 1231, predicted= 3, true= 3, accuracy=1.00
ID= 2661, predicted= 4, true= 4, accuracy=1.00
ID= 2662, predicted= 5, true= 4, accuracy=0.00
ID= 2663, predicted= 2, true= 2, accuracy=1.00
ID= 2664, predicted= 4, true= 4, accuracy=1.00
ID= 2665, predicted= 9, true= 5, accuracy=0.00
ID= 2666, predicted= 0, true= 0, accuracy=1.00
ID= 2667, predicted= 6, true= 6, accuracy=1.00
ID= 2668, predicted= 4, true= 4, accuracy=1.00
ID= 2669, predicted= 2, true= 2, accuracy=1.00
ID= 2670, predicted= 5, true= 5, accuracy=1.00
ID= 2671, predicted= 5, true= 5, accuracy=1.00
ID= 3491, predicted= 3, true= 5, accuracy=0.00
ID= 3492, predicted= 2, true= 5, accuracy=0.00
ID= 3493, predicted= 4, true= 4, accuracy=1.00
ID= 3494, predicted= 2, true= 2, accuracy=1.00
ID= 3495, predicted= 0, true= 0, accuracy=1.00
ID= 3496, predicted= 0, true= 0, accuracy=1.00
ID= 3497, predicted= 4, true= 4, accuracy=1.00
classification accuracy=0.6764

forest3 Full output of Training Data

tree= 0, node= 1, feature= 8, thr= 58.82, gain=0.275251
tree= 0, node= 2, feature= 5, thr= 62.75, gain=0.226884
tree= 0, node= 3, feature= 8, thr= 87.14, gain=0.086199
tree= 0, node= 4, feature= 2, thr= 29.41, gain=0.154560
tree= 0, node= 5, feature= 5, thr= 87.67, gain=0.145217
tree= 0, node= 6, feature= 0, thr= 19.61, gain=0.324944
tree= 0, node= 7, feature= 5, thr= 62.75, gain=0.559816
tree= 0, node= 8, feature= 6, thr= 13.73, gain=0.247151
tree= 0, node= 9, feature= 1, thr= 97.76, gain=0.434086
tree= 0, node= 10, feature= 5, thr= 76.18, gain=0.078732
tree= 0, node= 11, feature= 3, thr= 87.76, gain=0.356982
tree= 0, node= 12, feature= 8, thr= 68.33, gain=0.064377
tree= 0, node= 13, feature= 9, thr= 29.41, gain=0.493558
tree= 0, node= 14, feature= 8, thr= 99.06, gain=0.016082
tree= 0, node= 15, feature= 9, thr= 56.86, gain=0.447150
tree= 0, node= 16, feature= 1, thr= 99.31, gain=0.484915
tree= 0, node= 17, feature= 1, thr= 97.18, gain=0.043933
tree= 0, node= 18, feature= 8, thr= 15.92, gain=0.192086
tree= 0, node= 19, feature= 0, thr= 62.75, gain=0.256939

tree= 0, node= 20, feature= 4, thr= 45.10, gain=0.363340
tree= 0, node= 21, feature= 4, thr= 49.02, gain=0.162515
tree= 0, node= 22, feature= 4, thr= 45.10, gain=0.088956
tree= 0, node= 23, feature= 7, thr= 70.69, gain=0.217262
tree= 0, node= 24, feature= 3, thr= 90.20, gain=0.436787
tree= 0, node= 25, feature= 5, thr= 68.63, gain=0.246399
tree= 0, node= 26, feature= 0, thr= 62.35, gain=0.157775
tree= 0, node= 27, feature= 8, thr= 73.27, gain=0.053486
tree= 0, node= 28, feature= 0, thr= 70.59, gain=0.149718
tree= 0, node= 29, feature= 5, thr= 25.53, gain=0.576032
tree= 0, node= 30, feature= 2, thr= 47.06, gain=0.101263
tree= 0, node= 31, feature= 7, thr= 80.24, gain=0.212035
tree= 0, node= 32, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 33, feature= 8, thr= 1.14, gain=0.194205
tree= 0, node= 34, feature= 4, thr= 39.22, gain=0.057515
tree= 0, node= 35, feature= 1, thr= 99.02, gain=0.011882
tree= 0, node= 36, feature= 6, thr= 24.98, gain=0.177502
tree= 0, node= 37, feature= 5, thr= 38.90, gain=0.339309
tree= 0, node= 38, feature= 5, thr= 45.37, gain=0.464929
tree= 0, node= 39, feature= 6, thr= 44.24, gain=0.149305
tree= 0, node= 40, feature= 4, thr= 23.82, gain=0.115592
tree= 0, node= 41, feature= 8, thr= 11.37, gain=0.229957
tree= 0, node= 42, feature= 3, thr= 98.08, gain=0.080969
tree= 0, node= 43, feature= 0, thr= 11.76, gain=0.185445
tree= 0, node= 44, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 45, feature= 4, thr= 74.59, gain=0.043947
tree= 0, node= 46, feature= 9, thr= 34.69, gain=0.339362
tree= 0, node= 47, feature= 5, thr= 99.14, gain=0.153113
tree= 0, node= 48, feature= 7, thr= 53.41, gain=0.393068
tree= 0, node= 49, feature= 5, thr= 71.43, gain=0.113864
tree= 0, node= 50, feature= 5, thr= 36.00, gain=0.469329
tree= 0, node= 51, feature= 3, thr= 89.06, gain=0.554534
tree= 0, node= 52, feature= 6, thr= 47.06, gain=0.283629
tree= 0, node= 53, feature= 6, thr= 31.37, gain=0.486541
tree= 0, node= 54, feature= 9, thr= 57.45, gain=0.312870
tree= 0, node= 55, feature= 3, thr= 96.08, gain=0.305459
tree= 0, node= 56, feature= 5, thr= 29.18, gain=0.564215
tree= 0, node= 57, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 58, feature= 1, thr= 98.10, gain=0.050459
tree= 0, node= 59, feature= 1, thr= 90.20, gain=0.150612
tree= 0, node= 60, feature= 6, thr= 61.96, gain=0.334710
tree= 0, node= 61, feature= 9, thr= 21.96, gain=0.239901
tree= 0, node= 62, feature= 4, thr= 38.04, gain=0.066191
tree= 0, node= 63, feature= 8, thr= 91.06, gain=0.005799
tree= 0, node= 66, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 67, feature= 0, thr= 19.06, gain=0.169572
tree= 0, node= 68, feature= 9, thr= 18.82, gain=0.016728
tree= 0, node= 69, feature= 2, thr= 0.57, gain=0.007051
tree= 0, node= 70, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 71, feature= 0, thr= 56.86, gain=0.299448
tree= 0, node= 72, feature= 5, thr= 2.43, gain=0.044264
tree= 0, node= 73, feature= 0, thr= 60.78, gain=0.268141
tree= 0, node= 74, feature= 5, thr= 8.20, gain=0.043310
tree= 0, node= 75, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 76, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 77, feature= 3, thr= 87.49, gain=0.393020
tree= 0, node= 78, feature= 9, thr= 9.65, gain=0.256195
tree= 0, node= 79, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 80, feature= 9, thr= 17.65, gain=0.518957
tree= 0, node= 81, feature= 4, thr= 40.06, gain=0.072006
tree= 0, node= 82, feature= 4, thr= 78.82, gain=0.086470
tree= 0, node= 83, feature= 4, thr= 62.94, gain=0.091301
tree= 0, node= 84, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 85, feature= 6, thr= 22.00, gain=0.573160
tree= 0, node= 86, feature= 2, thr= 35.41, gain=0.128597
tree= 0, node= 87, feature= 1, thr= 81.45, gain=0.138142
tree= 0, node= 90, feature= 6, thr= 23.24, gain=0.688746
tree= 0, node= 91, feature= 6, thr= 55.92, gain=0.396520
tree= 0, node= 92, feature= 7, thr= 60.39, gain=0.035558
tree= 0, node= 93, feature= 0, thr= 29.41, gain=0.278443
tree= 0, node= 94, feature= 8, thr= 42.08, gain=0.158430
tree= 0, node= 95, feature= 2, thr= 47.06, gain=0.617862
tree= 0, node= 96, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node= 97, feature= 7, thr= 77.45, gain=0.074843
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tree= 0, node= 99, feature= 9, thr= 26.98, gain=0.382983
tree= 0, node=100, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=103, feature= 5, thr= 95.29, gain=0.065210
tree= 0, node=104, feature= 9, thr= 2.27, gain=0.149332
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tree= 0, node=109, feature= 7, thr= 78.67, gain=0.287752
tree= 0, node=110, feature= 1, thr= 98.86, gain=0.362400
tree= 0, node=111, feature= 7, thr= 70.59, gain=0.186133
tree= 0, node=112, feature= 7, thr= 10.78, gain=0.029530
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tree= 0, node=116, feature= 3, thr= 1.55, gain=0.016544
tree= 0, node=117, feature= 4, thr= 0.92, gain=0.150393
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tree= 0, node=124, feature= 1, thr= 94.51, gain=0.206413
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tree= 0, node=126, feature= 3, thr= 84.20, gain=0.220510
tree= 0, node=127, feature= 8, thr= 97.02, gain=0.016975
tree= 0, node=134, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=137, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=138, feature= 5, thr= 52.29, gain=0.087266
tree= 0, node=139, feature= 6, thr= 68.33, gain=0.063085
tree= 0, node=142, feature= 9, thr= 29.00, gain=0.160820
tree= 0, node=143, 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= 8, thr= 9.06, gain=0.072018
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tree= 0, node=149, feature= 2, thr= 45.10, gain=0.116081
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tree= 0, node=156, feature= 3, thr= 91.53, gain=0.010390
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tree= 0, node=160, feature= 3, thr= 98.20, gain=0.153768
tree= 0, node=161, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=162, feature= 4, thr= 36.24, gain=0.072100
tree= 0, node=163, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=165, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=166, feature= 4, thr= 56.04, gain=0.100622
tree= 0, node=167, feature= 3, thr= 91.76, gain=0.256916
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tree= 0, node=171, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=172, feature= 9, thr= 1.59, gain=0.383225
tree= 0, node=173, feature= 9, thr= 20.94, gain=0.355144
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tree= 0, node=175, feature= 1, thr= 98.24, gain=0.257339
tree= 0, node=180, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=182, feature= 5, thr= 94.12, gain=0.010884
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tree= 0, node=184, feature= 0, thr= 4.53, gain=0.156704
tree= 0, node=185, feature= 6, thr= 62.14, gain=0.312890
tree= 0, node=186, feature= 7, thr= 55.25, gain=0.060673
tree= 0, node=187, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=188, feature= 5, thr= 96.06, gain=0.036097
tree= 0, node=189, feature=-1, thr= -1.00, gain=-1.000000
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tree= 0, node=195, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=198, feature= 8, thr= 59.18, gain=0.030599
tree= 0, node=199, feature= 2, thr= 52.41, gain=0.123275
tree= 0, node=204, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=205, feature= 6, thr= 98.51, gain=0.002443
tree= 0, node=206, feature= 1, thr= 92.24, gain=0.122768
tree= 0, node=207, feature= 8, thr= 75.35, gain=0.067094
tree= 0, node=208, feature= 1, thr= 99.20, gain=0.284439
tree= 0, node=209, feature= 5, thr= 39.22, gain=0.256872
tree= 0, node=212, feature= 0, thr= 65.04, gain=0.032584
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tree= 0, node=214, feature=-1, thr= -1.00, gain=-1.000000
tree= 0, node=215, feature= 2, thr= 78.43, gain=0.043961
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ID= 4, predicted= 9, true= 9, accuracy=1.00
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ID= 1462, predicted= 9, true= 9, accuracy=1.00
ID= 1463, predicted= 3, true= 3, accuracy=1.00
ID= 1464, predicted= 1, true= 1, accuracy=1.00
ID= 1465, predicted= 8, true= 8, accuracy=1.00
ID= 1466, predicted= 1, true= 1, accuracy=1.00
ID= 1467, predicted= 0, true= 0, accuracy=1.00
ID= 1468, predicted= 9, true= 9, accuracy=1.00
ID= 1469, predicted= 6, true= 6, accuracy=1.00
ID= 1470, predicted= 2, true= 1, accuracy=0.00
ID= 1471, predicted= 7, true= 2, accuracy=0.00
ID= 1472, predicted= 2, true= 1, accuracy=0.00
ID= 1473, predicted= 7, true= 7, accuracy=1.00

ID= 1474, predicted= 7, true= 1, accuracy=0.00
ID= 1475, predicted= 2, true= 2, accuracy=1.00
ID= 1476, predicted= 9, true= 9, accuracy=1.00
ID= 1477, predicted= 9, true= 9, accuracy=1.00
ID= 1478, predicted= 2, true= 8, accuracy=0.00
ID= 1479, predicted= 4, true= 4, accuracy=1.00
ID= 1480, predicted= 6, true= 6, accuracy=1.00
ID= 1481, predicted= 0, true= 0, accuracy=1.00
ID= 1482, predicted= 4, true= 4, accuracy=1.00
ID= 1483, predicted= 9, true= 9, accuracy=1.00
ID= 1484, predicted= 1, true= 1, accuracy=1.00
ID= 1485, predicted= 9, true= 4, accuracy=0.00
ID= 1486, predicted= 4, true= 4, accuracy=1.00
ID= 1487, predicted= 5, true= 5, accuracy=1.00
ID= 1488, predicted= 8, true= 8, accuracy=1.00
ID= 1489, predicted= 3, true= 2, accuracy=0.00
ID= 1490, predicted= 8, true= 2, accuracy=0.00
ID= 1491, predicted= 6, true= 6, accuracy=1.00
ID= 1492, predicted= 7, true= 7, accuracy=1.00
ID= 1493, predicted= 8, true= 8, accuracy=1.00
ID= 1838, predicted= 4, true= 4, accuracy=1.00
ID= 1839, predicted= 7, true= 3, accuracy=0.00
ID= 1840, predicted= 6, true= 6, accuracy=1.00
ID= 1841, predicted= 0, true= 0, accuracy=1.00
ID= 1842, predicted= 4, true= 4, accuracy=1.00
ID= 1843, predicted= 8, true= 8, accuracy=1.00
ID= 1844, predicted= 3, true= 9, accuracy=0.00
ID= 1845, predicted= 7, true= 7, accuracy=1.00
ID= 1846, predicted= 3, true= 3, accuracy=1.00
ID= 1847, predicted= 0, true= 0, accuracy=1.00
ID= 1848, predicted= 8, true= 8, accuracy=1.00
ID= 1849, predicted= 1, true= 1, accuracy=1.00
ID= 1850, predicted= 1, true= 1, accuracy=1.00
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ID= 1852, predicted= 3, true= 3, accuracy=1.00
ID= 1853, predicted= 5, true= 5, accuracy=1.00
ID= 1854, predicted= 7, true= 1, accuracy=0.00
ID= 1855, predicted= 8, true= 8, accuracy=1.00
ID= 1856, predicted= 2, true= 2, accuracy=1.00
ID= 1857, predicted= 1, true= 7, accuracy=0.00
ID= 1858, predicted= 0, true= 0, accuracy=1.00
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ID= 1869, predicted= 3, true= 3, accuracy=1.00
ID= 1870, predicted= 7, true= 7, accuracy=1.00
ID= 1871, predicted= 5, true= 5, accuracy=1.00
ID= 1872, predicted= 8, true= 8, accuracy=1.00

ID= 1873, predicted= 4, true= 4, accuracy=1.00
ID= 1874, predicted= 4, true= 4, accuracy=1.00
ID= 1875, predicted= 9, true= 9, accuracy=1.00
ID= 1876, predicted= 1, true= 1, accuracy=1.00
ID= 1877, predicted= 4, true= 4, accuracy=1.00
ID= 1878, predicted= 2, true= 6, accuracy=0.00
ID= 1879, predicted= 9, true= 5, accuracy=0.00
ID= 1880, predicted= 8, true= 8, accuracy=1.00
ID= 1881, predicted= 2, true= 2, accuracy=1.00
ID= 1882, predicted= 6, true= 6, accuracy=1.00
ID= 1883, predicted= 3, true= 5, accuracy=0.00
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ID= 1885, predicted= 2, true= 1, accuracy=0.00
ID= 1886, predicted= 5, true= 5, accuracy=1.00
ID= 1887, predicted= 7, true= 7, accuracy=1.00
ID= 1888, predicted= 1, true= 1, accuracy=1.00
ID= 1889, predicted= 6, true= 6, accuracy=1.00
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ID= 1891, predicted= 4, true= 4, accuracy=1.00
ID= 1892, predicted= 4, true= 4, accuracy=1.00
ID= 1893, predicted= 0, true= 0, accuracy=1.00
ID= 1894, predicted= 9, true= 9, accuracy=1.00
ID= 1895, predicted= 2, true= 2, accuracy=1.00
ID= 1896, predicted= 5, true= 5, accuracy=1.00
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ID= 1898, predicted= 7, true= 7, accuracy=1.00
ID= 1899, predicted= 0, true= 0, accuracy=1.00
ID= 1900, predicted= 5, true= 0, accuracy=0.00
ID= 1901, predicted= 3, true= 3, accuracy=1.00
ID= 1902, predicted= 4, true= 4, accuracy=1.00
ID= 1903, predicted= 5, true= 5, accuracy=1.00
ID= 1904, predicted= 9, true= 0, accuracy=0.00
ID= 1905, predicted= 1, true= 1, accuracy=1.00
ID= 1906, predicted= 6, true= 6, accuracy=1.00
ID= 1907, predicted= 3, true= 3, accuracy=1.00
ID= 1908, predicted= 2, true= 2, accuracy=1.00
ID= 1909, predicted= 3, true= 3, accuracy=1.00
ID= 1910, predicted= 8, true= 8, accuracy=1.00
ID= 1911, predicted= 5, true= 8, accuracy=0.00
ID= 1912, predicted= 6, true= 0, accuracy=0.00
ID= 1913, predicted= 5, true= 5, accuracy=1.00
ID= 1914, predicted= 3, true= 3, accuracy=1.00
ID= 1915, predicted= 9, true= 5, accuracy=0.00
ID= 3493, predicted= 4, true= 4, accuracy=1.00
ID= 3494, predicted= 2, true= 2, accuracy=1.00
ID= 3495, predicted= 0, true= 0, accuracy=1.00
ID= 3496, predicted= 0, true= 0, accuracy=1.00
ID= 3497, predicted= 4, true= 4, accuracy=1.00
classification accuracy=0.7556