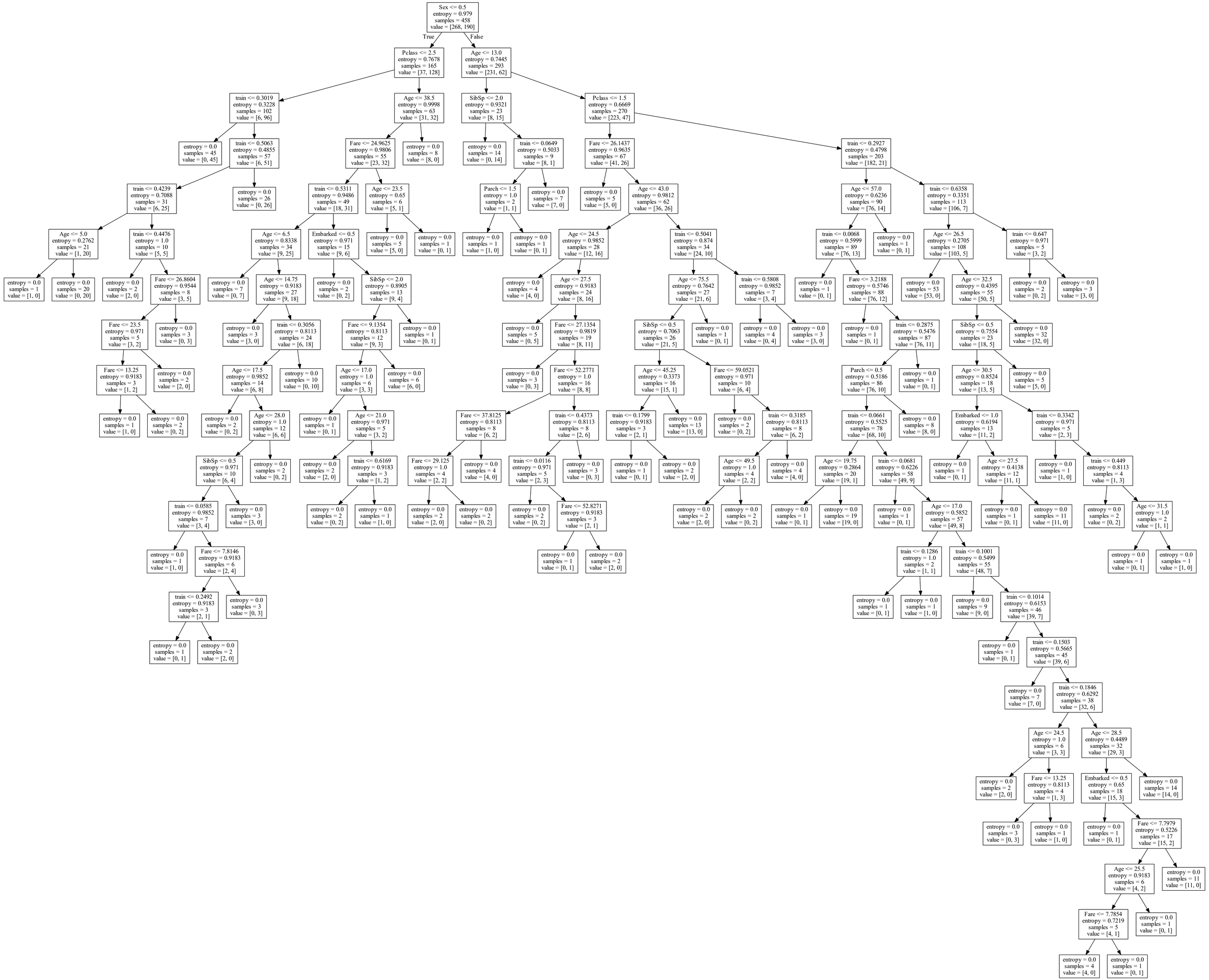
Sex <= 0.5
entropy = 0.979
samples = 458
value = [268, 190]
True
False
Pclass <= 2.5
entropy = 0.7678
samples = 165
value = [37, 128]
Age <= 13.0
entropy = 0.7445
samples = 293
value = [231, 62]
train <= 0.3019
entropy = 0.3228
samples = 102
value = [6, 96]
Age <= 38.5
entropy = 0.9998
samples = 63
value = [31, 32]
SibSp <= 2.0
entropy = 0.9321
samples = 23
value = [8, 15]
Pclass <= 1.5
entropy = 0.6669
samples = 270
value = [223, 47]
entropy = 0.0
samples = 45
value = [0, 45]
train <= 0.5063
entropy = 0.4855
samples = 57
value = [6, 51]
Fare <= 24.9625
entropy = 0.9806
samples = 55
value = [23, 32]
entropy = 0.0
samples = 8
value = [8, 0]
entropy = 0.0
samples = 14
value = [0, 14]
train <= 0.0649
entropy = 0.5033
samples = 9
value = [8, 1]
Fare <= 26.1437
entropy = 0.9635
samples = 67
value = [41, 26]
train <= 0.2927
entropy = 0.4798
samples = 203
value = [182, 21]
train <= 0.4239
entropy = 0.7088
samples = 31
value = [6, 25]
entropy = 0.0
samples = 26
value = [0, 26]
train <= 0.5311
entropy = 0.9486
samples = 18
value = [18, 31]
Age <= 23.5
entropy = 0.65
samples = 6
value = [5, 1]
Parch <= 1.5
entropy = 1.0
samples = 2
value = [1, 1]
entropy = 0.0
samples = 7
value = [7, 0]
entropy = 0.0
samples = 5
value = [5, 0]
Age <= 43.0
entropy = 0.9812
samples = 62
value = [36, 26]
Age <= 57.0
entropy = 0.6236
samples = 90
value = [76, 14]
train <= 0.6358
entropy = 0.3351
samples = 113
value = [106, 7]
Age <= 5.0
entropy = 0.2762
samples = 21
value = [1, 20]
train <= 0.4476
entropy = 1.0
samples = 10
value = [5, 5]
Age <= 6.5
entropy = 0.8338
samples = 34
value = [9, 25]
Embarked <= 0.5
entropy = 0.971
samples = 15
value = [9, 6]
entropy = 0.0
samples = 5
value = [5, 0]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 24.5
entropy = 0.9852
samples = 28
value = [12, 16]
train <= 0.5041
entropy = 0.874
samples = 34
value = [24, 10]
train <= 0.0068
entropy = 0.5999
samples = 89
value = [76, 13]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 26.5
entropy = 0.2705
samples = 108
value = [103, 5]
train <= 0.647
entropy = 0.971
samples = 5
value = [3, 2]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 20
value = [0, 20]
entropy = 0.0
samples = 2
value = [2, 0]
Fare <= 26.8604
entropy = 0.9544
samples = 8
value = [3, 5]
entropy = 0.0
samples = 7
value = [0, 7]
Age <= 14.75
entropy = 0.9183
samples = 27
value = [9, 18]
entropy = 0.0
samples = 2
value = [0, 2]
SibSp <= 2.0
entropy = 0.8905
samples = 13
value = [9, 4]
entropy = 0.0
samples = 4
value = [4, 0]
Age <= 27.5
entropy = 0.9183
samples = 24
value = [8, 16]
Age <= 75.5
entropy = 0.7642
samples = 27
value = [21, 6]
train <= 0.5808
entropy = 0.9852
samples = 7
value = [3, 4]
Fare <= 3.2188
entropy = 0.5746
samples = 88
value = [76, 12]
Age <= 32.5
entropy = 0.4395
samples = 55
value = [50, 5]
entropy = 0.0
samples = 53
value = [53, 0]
entropy = 0.0
samples = 2
value = [0, 2]
entropy = 0.0
samples = 3
value = [3, 0]
Fare <= 23.5
entropy = 0.971
samples = 5
value = [3, 2]
entropy = 0.0
samples = 3
value = [0, 3]
entropy = 0.0
samples = 3
value = [3, 0]
train <= 0.3056
entropy = 0.8113
samples = 24
value = [6, 18]
Fare <= 9.1354
entropy = 0.8113
samples = 12
value = [9, 3]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 5
value = [5, 0]
Fare <= 27.1354
entropy = 0.9819
samples = 19
value = [8, 11]
SibSp <= 0.5
entropy = 0.7063
samples = 26
value = [21, 5]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 4
value = [0, 4]
entropy = 0.0
samples = 3
value = [3, 0]
entropy = 0.0
samples = 1
value = [0, 1]
train <= 0.2875
entropy = 0.5476
samples = 87
value = [76, 11]
SibSp <= 0.5
entropy = 0.7554
samples = 23
value = [18, 5]
entropy = 0.0
samples = 32
value = [32, 0]
Fare <= 13.25
entropy = 0.9183
samples = 3
value = [1, 2]
entropy = 0.0
samples = 2
value = [2, 0]
Age <= 17.5
entropy = 0.9852
samples = 14
value = [6, 8]
entropy = 0.0
samples = 10
value = [0, 10]
Age <= 17.0
entropy = 1.0
samples = 6
value = [3, 3]
entropy = 0.0
samples = 6
value = [6, 0]
entropy = 0.0
samples = 3
value = [0, 3]
Fare <= 52.2771
entropy = 1.0
samples = 16
value = [8, 8]
Age <= 45.25
entropy = 0.3373
samples = 16
value = [15, 1]
Fare <= 59.0521
entropy = 0.971
samples = 10
value = [6, 4]
Parch <= 0.5
entropy = 0.5186
samples = 86
value = [76, 10]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 30.5
entropy = 0.8524
samples = 18
value = [13, 5]
entropy = 0.0
samples = 5
value = [5, 0]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 2
value = [2, 0]
Age <= 28.0
entropy = 1.0
samples = 12
value = [6, 6]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 21.0
entropy = 0.971
samples = 5
value = [3, 2]
Fare <= 37.8125
entropy = 0.8113
samples = 8
value = [6, 2]
train <= 0.4373
entropy = 0.8113
samples = 8
value = [2, 6]
train <= 0.1799
entropy = 0.9183
samples = 3
value = [2, 1]
entropy = 0.0
samples = 13
value = [13, 0]
entropy = 0.0
samples = 2
value = [0, 2]
train <= 0.3185
entropy = 0.8113
samples = 8
value = [6, 2]
train <= 0.0661
entropy = 0.5525
samples = 78
value = [68, 10]
entropy = 0.0
samples = 8
value = [8, 0]
Embarked <= 1.0
entropy = 0.6194
samples = 13
value = [11, 2]
train <= 0.3342
entropy = 0.971
samples = 5
value = [2, 3]
SibSp <= 0.5
entropy = 0.971
samples = 10
value = [6, 4]
entropy = 0.0
samples = 2
value = [0, 2]
entropy = 0.0
samples = 2
value = [2, 0]
train <= 0.6169
entropy = 0.9183
samples = 3
value = [1, 2]
Fare <= 29.125
entropy = 1.0
samples = 4
value = [2, 2]
entropy = 0.0
samples = 4
value = [4, 0]
train <= 0.0116
entropy = 0.971
samples = 5
value = [2, 3]
entropy = 0.0
samples = 3
value = [0, 3]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 2
value = [2, 0]
Age <= 49.5
entropy = 1.0
samples = 4
value = [2, 2]
entropy = 0.0
samples = 4
value = [4, 0]
Age <= 19.75
entropy = 0.2864
samples = 20
value = [19, 1]
train <= 0.0681
entropy = 0.6226
samples = 58
value = [49, 9]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 27.5
entropy = 0.4138
samples = 12
value = [11, 1]
entropy = 0.0
samples = 1
value = [1, 0]
train <= 0.449
entropy = 0.8113
samples = 4
value = [1, 3]
train <= 0.0585
entropy = 0.9852
samples = 7
value = [3, 4]
entropy = 0.0
samples = 3
value = [3, 0]
entropy = 0.0
samples = 2
value = [0, 2]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 2
value = [2, 0]
entropy = 0.0
samples = 2
value = [0, 2]
entropy = 0.0
samples = 2
value = [2, 0]
entropy = 0.0
samples = 2
value = [0, 2]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 19
value = [19, 0]
entropy = 0.0
samples = 1
value = [0, 1]
Age <= 17.0
entropy = 0.5852
samples = 57
value = [49, 8]
entropy = 0.0
samples = 11
value = [11, 0]
entropy = 0.0
samples = 2
value = [0, 2]
Age <= 31.5
entropy = 1.0
samples = 2
value = [1, 1]
entropy = 0.0
samples = 1
value = [1, 0]
Fare <= 7.8146
entropy = 0.9183
samples = 6
value = [2, 4]
Fare <= 52.8271
entropy = 0.9183
samples = 3
value = [2, 1]
train <= 0.1286
entropy = 1.0
samples = 2
value = [1, 1]
train <= 0.1001
entropy = 0.5499
samples = 55
value = [48, 7]
entropy = 0.0
samples = 1
value = [0, 1]
train <= 0.2492
entropy = 0.9183
samples = 3
value = [2, 1]
entropy = 0.0
samples = 3
value = [0, 3]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 2
value = [2, 0]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 9
value = [9, 0]
train <= 0.1014
entropy = 0.6153
samples = 46
value = [39, 7]
entropy = 0.0
samples = 1
value = [0, 1]
train <= 0.1503
entropy = 0.5665
samples = 45
value = [39, 6]
entropy = 0.0
samples = 7
value = [7, 0]
train <= 0.1846
entropy = 0.6292
samples = 38
value = [32, 6]
Age <= 24.5
entropy = 1.0
samples = 6
value = [3, 3]
Age <= 28.5
entropy = 0.4489
samples = 32
value = [29, 3]
entropy = 0.0
samples = 2
value = [2, 0]
Fare <= 13.25
entropy = 0.8113
samples = 4
value = [1, 3]
Embarked <= 0.5
entropy = 0.65
samples = 18
value = [15, 3]
entropy = 0.0
samples = 14
value = [14, 0]
entropy = 0.0
samples = 3
value = [0, 3]
entropy = 0.0
samples = 1
value = [1, 0]
entropy = 0.0
samples = 1
value = [0, 1]
Fare <= 7.7979
entropy = 0.5226
samples = 17
value = [15, 2]
Age <= 25.5
entropy = 0.9183
samples = 6
value = [4, 2]
entropy = 0.0
samples = 11
value = [11, 0]
Fare <= 7.7854
entropy = 0.7219
samples = 5
value = [4, 1]
entropy = 0.0
samples = 1
value = [0, 1]
entropy = 0.0
samples = 4
value = [4, 0]
entropy = 0.0
samples = 1
value = [0, 1]