samples = 73 value = [49, 24] samples = 2 value = [2, 0] value = [0, 1] value = [0, 4] value = [0, 4] value = [0, 4] value = [0, 4] value = [0, 1] value = [1, 0] value = [1, 0] value = [1, 0] value = [29, 14] value = [0, 1]samples = 60 value = [45, 15] samples = 5 value = [2, 3] samples = 64 value = [62, 2] X[13] <= 0.5 gini = 0.3678 samples = 70 value = [53, 17]  $\begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [0, 1] \end{array} \quad \begin{array}{c} X[16] <= 0.5 \\ \text{gini} = 0.4444 \\ \text{samples} = 42 \\ \text{value} = [28, 14] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}$  $X[19] \le 0.5$  gini = 0.4475 samples = 71 value = [47, 24] gini = 0.0 samples = 2 value = [2, 0] $X[10] \le 0.5$ gini = 0.3084 samples = 105 value = [85, 20]  $X[15] \le 0.5$ gini = 0.48 samples = 10 value = [6, 4]  $X[14] \le 0.5$ X[8] <= 0.5 gini = 0.3599 samples = 51 value = [39, 12]  $X[3] \le 0.5$  gini = 0.362 samples = 59 value = [45, 14]gini = 0.0samples = 1value = [0, 1]gini = 0.5 samples = 6 value = [3, 3] gini = 0.0624 samples = 62 value = [60, 2] samples = 49 value = [36, 13] X[16] <= 0.5 gini = 0.4163 samples = 44 value = [31, 13] gini = 0.0 samples = 5 value = [5, 0] X[15] <= 0.5 gini = 0.3562 samples = 69 value = [53, 16] gini = 0.0 samples = 1 value = [0, 1] $X[14] \le 0.5$  gini = 0.4537 samples = 69 value = [45, 24] gini = 0.0 samples = 2 value = [2, 0]X[8] <= 0.5 gini = 0.3478 samples = 58 value = [45, 13] X[20] <= 0.5 gini = 0.375 samples = 48 value = [36, 12]  $X[24] \le 0.5$ gini = 0.0644 samples = 60 value = [58, 2]  $X[27] \le 0.5$ gini = 0.3792 samples = 59 value = [44, 15]  $X[4] \le 0.5$ gini = 0.18 samples = 10 value = [9, 1]  $X[9] \le 0.5$  gini = 0.32 samples = 55 value = [44, 11] gini = 0.4444 samples = 3 value = [1, 2] $X[14] \le 0.5$  gini = 0.4012 samples = 36 value = [26, 10] gini = 0.0 samples = 1 value = [0, 1]  $X[15] \le 0.5$  gini = 0.4331 samples = 41 value = [28, 13] gini = 0.0 samples = 3 value = [3, 0]X[15] <= 0.5 gini = 0.2048 samples = 2547 value = [2252, 295] X[23] <= 0.5 gini = 0.0677 samples = 57 value = [55, 2] gini = 0.0 samples = 1 value = [1, 0] X[16] <= 0.5 gini = 0.4541 samples = 66 value = [43, 23] gini = 0.0 samples = 2 value = [2, 0] $X[14] \le 0.5$  gini = 0.2778 samples = 6 value = [5, 1]X[6] <= 0.5 gini = 0.355 samples = 52 value = [40, 12]  $X[17] \le 0.5$ gini = 0.0762 samples = 126 value = [121, 5]  $X[13] \le 0.5$ gini = 0.375 samples = 4 value = [3, 1]  $X[13] \le 0.5$ gini = 0.3383 samples = 51 value = [40, 11]

gini = 0.0 samples = 1 value = [0, 1]  $X[18] \le 0.5$ gini = 0.2732 samples = 49 value = [41, 8]  $X[20] \le 0.5$ gini = 0.4444 samples = 3 value = [2, 1]  $X[9] \le 0.5$ gini = 0.3569 samples = 43 value = [33, 10]  $X[25] \le 0.5$  gini = 0.32 samples = 5 value = [4, 1] gini = 0.0 samples = 1 value = [1, 0]X[15] <= 0.5 gini = 0.2825 samples = 47 value = [39, 8] gini = 0.0 samples = 2 value = [2, 0] x[19] <= 0.5 gini = 0.5 samples = 2 value = [1, 1] gini = 0.0 samples = 1 value = [1, 0] $\begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 4 \\ \text{value} = [4, 0] \end{array} \quad \begin{array}{c} X[20] <= 0.5 \\ \text{gini} = 0.2188 \\ \text{samples} = 8 \\ \text{value} = [7, 1] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}$  $X[23] \le 0.5$  gini = 0.4248 samples = 49 value = [34, 15] gini = 0.0 samples = 2 value = [2, 0] $X[4] \le 0.5$ gini = 0.4723 samples = 34 value = [21, 13] X[11] <= 0.5 gini = 0.414 samples = 41 value = [29, 12]  $X[17] \le 0.5$ gini = 0.3324 samples = 76 value = [60, 16] gini = 0.0 samples = 39 value = [39, 0] gini = 0.0 samples = 1 value = [1, 0] X[6] <= 0.5 gini = 0.4444 samples = 30 value = [20, 10]  $\begin{array}{c} \text{gini} = 0.4688 \\ \text{samples} = 32 \\ \text{value} = [20, 12] \end{array} \quad \begin{array}{c} \text{gini} = 0.4444 \\ \text{samples} = 3 \\ \text{value} = [2, 1] \end{array} \quad \begin{array}{c} \text{X[0]} <= 0.5 \\ \text{gini} = 0.0726 \\ \text{samples} = 53 \\ \text{value} = [51, 2] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array} \quad \begin{array}{c} \text{X[11]} <= 0.5 \\ \text{gini} = 0.4667 \\ \text{samples} = 62 \\ \text{value} = [39, 23] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}$ X[9] <= 0.5gini = 0.0425 samples = 46 X[20] <= 0.5 gini = 0.375 samples = 40 value = [30, 10]  $\begin{array}{c} X[25] <= 0.5 \\ gini = 0.0701 \\ samples = 110 \\ value = [106, 4] \end{array} \\ \begin{array}{c} X[25] <= 0.5 \\ gini = 0.0701 \\ samples = 110 \\ value = [106, 4] \end{array} \\ \begin{array}{c} X[25] <= 0.5 \\ gini = 0.0701 \\ samples = 17 \\ value = [6, 1] \end{array} \\ \begin{array}{c} X[24] <= 0.5 \\ gini = 0.0 \\ samples = 29 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ gini = 0.0 \\ samples = 2 \\ value = [2, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 1 \\ value = [1, 0] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 2 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.5 \\ samples = 3 \\ value = [37, 8] \end{array} \\ \begin{array}{c} X[27] <= 0.$ X[24] <= 0.5 gini = 0.42 samples = 40 value = [28, 12] gini = 0.0 samples = 1 value = [1, 0] X[23] <= 0.5 gini = 0.3423 samples = 73 value = [57, 16] $\begin{array}{c} \text{gini} = 0.074 \\ \text{samples} = 52 \\ \text{value} = [50, 2] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array} \quad \begin{array}{c} X[2] <= 0.5 \\ \text{gini} = 0.4709 \\ \text{samples} = 58 \\ \text{value} = [36, 22] \end{array} \quad \begin{array}{c} X[2] <= 0.5 \\ \text{gini} = 0.375 \\ \text{samples} = 4 \\ \text{value} = [3, 1] \end{array}$  $X[12] \le 0.5$  gini = 0.426 samples = 39 value = [27, 12] gini = 0.0 samples = 1 value = [1, 0] $X[15] \le 0.5$ gini = 0.3527 samples = 70 value = [54, 16]

gini = 0.0 samples = 3 value = [3, 0] samples = 36 value = [28, 8]  $X[5] \le 0.5$ gini = 0.4321 samples = 38 value = [26, 12]
gini = 0.0 samples = 1 value = [1, 0]  $X[6] \le 0.5$  gini = 0.477 samples = 56 value = [34, 22] gini = 0.0 samples = 2 value = [2, 0] gini = 0.0 samples = 3 value = [3, 0] gini = 0.0 samples = 1 value = [0, 1] $X[16] \le 0.5$  gini = 0.3636 samples = 67 value = [51, 16] gini = 0.0 samples = 3 value = [3, 0] $X[15] \le 0.5$ gini = 0.4608 samples = 25 value = [16, 9]  $X[15] \le 0.5$ gini = 0.5 samples = 2 value = [1, 1] X[14] <= 0.5 gini = 0.3711 samples = 65 value = [49, 16]  $X[4] \le 0.5$ gini = 0.4444 samples = 45 value = [30, 15]  $X[7] \le 0.5$ gini = 0.4753 samples = 54 value = [33, 21]  $X[24] \le 0.5$ gini = 0.3141 samples = 41 value = [33, 8] X[25] <= 0.5 gini = 0.054 samples = 36 value = [35, 1] gini = samples value =  $X[6] \le 0.5$ gini = 0.4494 samples = 44  $X[14] \le 0.5$  gini = 0.32 samples = 40 value = [32, 8] gini = 0.0 samples = 1 value = [1, 0]value = [29, 15] | value = [32, 20] | value = [1, 1] X[13] <= 0.5 gini = 0.3261 samples = 39 value = [31, 8] gini = 0.0 samples = 1 value = [1, 0] gini = 0.437 samples = 31 value = [21, 10] gini = 0.4444 samples = 3 value = [21, 10] $X[24] \le 0.5$  gini = 0.3829 samples = 62 value = [46, 16] gini = 0.0 samples = 1 value = [1, 0]X[8] <= 0.5 gini = 0.4675 samples = 51 value = [32, 19] gini = 0.0 samples = 1 value = [0, 1] gini = 0.0 samples = 1 value = [0, 1] gini = 0.0 samples = 1 value = [0, 1]X[9] <= 0.5 gini = 0.4444 samples = 42 value = [28, 14] X[19] <= 0.5 gini = 0.5 samples = 2 value = [1, 1] value = [1816, 233]  $X[16] \le 0.5$  gini = 0.0791 samples = 97 value = [93, 4] gini = 0.0 samples = 2 value = [2, 0] $X[2] \le 0.5$  gini = 0.387 gini = 0.0 samples = 1gini = 0.4688 samples = 48 value = [30, 18] gini = 0.4444 samples = 3 value = [2, 1]  $X[25] \le 0.5$ gini = 0.3324 samples = 38 value = [30, 8]
gini = 0.0 samples = 1 value = [1, 0] samples = 1samples = 40 samples = 2samples = 61 | value = [45, 16] | value = [1, 0]gini = 0.0799 samples = 96 value = [92, 4] gini = 0.0 samples = 1 value = [1, 0] samples = 32 samples = 1value = [23, 9] value = [1, 0] X[20] <= 0.5 gini = 0.0849 samples = 45 value = [43, 2] gini = 0.0 samples = 1 value = [1, 0] gini = 0.1528 samples = 12 value = [11, 1] gini = 0.0 samples = 1 value = [1, 0] $\begin{array}{c} \text{gini} = 0.3888 \\ \text{samples} = 53 \\ \text{value} = [39, 14] \end{array} \qquad \begin{array}{c} \text{gini} = 0.4444 \\ \text{samples} = 3 \\ \text{value} = [2, 1] \end{array} \qquad \begin{array}{c} \text{gini} = 0.375 \\ \text{samples} = 4 \\ \text{value} = [3, 1] \end{array} \qquad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}$ gini = 0.4444 gini = 0.5 gini = 0.0samples = 33 value = [32, 1] value = [1706, 229] X[20] <= 0.5 gini = 0.0815 samples = 94 value = [90, 4] | value = [29, 1] | value = [1, 0] | | value = [18, 8] | value = [1, 0] |