

### Decision tree for classification

1 if  $x_{41} < 2343.1$  then node 2 elseif  $x_{41} \geq 2343.1$  then node 3 else 2  
2 if  $x_{12} < 1.9934$  then node 4 elseif  $x_{12} \geq 1.9934$  then node 5 else 2  
3 if  $x_3 < 70.5$  then node 6 elseif  $x_3 \geq 70.5$  then node 7 else 2  
4 if  $x_3 < 89.5$  then node 8 elseif  $x_3 \geq 89.5$  then node 9 else 2  
5 if  $x_{21} < 1.989$  then node 10 elseif  $x_{21} \geq 1.989$  then node 11 else 2  
6 if  $x_4 < 2.20405$  then node 12 elseif  $x_4 \geq 2.20405$  then node 13 else 2  
7 if  $x_6 < 2.6981$  then node 14 elseif  $x_6 \geq 2.6981$  then node 15 else 1  
8 if  $x_5 < 0.2007$  then node 16 elseif  $x_5 \geq 0.2007$  then node 17 else 2  
9 class = 1  
10 class = 1  
11 class = 2  
12 class = 2  
13 class = 1  
14 if  $x_9 < 2.60905$  then node 18 elseif  $x_9 \geq 2.60905$  then node 19 else 2  
15 if  $x_7 < 1.40445$  then node 20 elseif  $x_7 \geq 1.40445$  then node 21 else 1  
16 if  $x_{28} < -0.5607$  then node 22 elseif  $x_{28} \geq -0.5607$  then node 23 else 2  
17 class = 1  
18 class = 2  
19 class = 1  
20 if  $x_{39} < 126.005$  then node 24 elseif  $x_{39} \geq 126.005$  then node 25 else 1  
21 class = 2  
22 class = 1  
23 if  $x_{41} < 2207.84$  then node 26 elseif  $x_{41} \geq 2207.84$  then node 27 else 2  
24 class = 2  
25 class = 1  
26 if  $x_{30} < -1.2557$  then node 28 elseif  $x_{30} \geq -1.2557$  then node 29 else 2  
27 if  $x_{41} < 2214.59$  then node 30 elseif  $x_{41} \geq 2214.59$  then node 31 else 2  
28 class = 2  
29 if  $x_8 < 3.01695$  then node 32 elseif  $x_8 \geq 3.01695$  then node 33 else 2  
30 class = 1  
31 if  $x_{29} < 2.92725$  then node 34 elseif  $x_{29} \geq 2.92725$  then node 35 else 2  
32 if  $x_6 < 2.7593$  then node 36 elseif  $x_6 \geq 2.7593$  then node 37 else 2  
33 class = 2  
34 if  $x_{34} < 2.58585$  then node 38 elseif  $x_{34} \geq 2.58585$  then node 39 else 2  
35 class = 1  
36 class = 2  
37 class = 1  
38 class = 1  
39 class = 2