

Knowledge Check



Knowledge Check

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Let us train T1, a decision tree, with the data given below. Which feature will you split at the root?

- A. x1
- B. x2
- C. x3
- D. y

x1	x2	х3	У
1	1	1	+1
0	1	0	-1
1	0	1	-1
0	0	1	+1



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Let us train T1, a decision tree, with the data given below. Which feature will you split at the root?

- A. x1
- B. x2
- C. x3
- D. y



The correct answer is C

x3 will split because it has the lowest classification error. At row 3, x3=1, y=-1; there is only one error compared to other features.

If you are training a decision tree, and you are at a node in which all of its data has the same y value, you should:

- A. Find the best feature to split
- B. Create a leaf that predicts the y value of all the data
- C. Terminate recursions on all branches and return the current tree

D. Go back to the parent node and select a different feature to split so that the y values are not all the same at this node





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If you are training a decision tree, and you are at a node in which all of its data has the same y value, you should:

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The correct answer is **B**

You should create a leaf that predicts the y value of all the data.



