	1.	(True/False) Whe error.	n learning decis	sion trees, sm	aller depth USUALLY translates to lower training	
		True False				
1 point	2.	(True/False) If no tree that achieve True			me input values, we can always learn a decision	
		False				
1 point	3.	(True/False) If decision tree T1 has lower training error than decision tree T2, then T1 will always have better test error than T2. True				
		False				
1	4.	Which of the following is true for decision trees?				
point		Model complexity increases with size of the data.				
		Model complexity increases with depth. None of the above				
1 point	5.	Pruning and early stopping in decision trees is used to combat overfitting				
			training error			
		O None of	the above			
1 point	6.	Which of the follo	owing is NOT an	n early stoppii	ng method?	
		Stop when the tree hits a certain depth Stop when pade has too few data points (minimum pade "size")				
		Stop when node has too few data points (minimum node "size") Stop when every possible split results in the same amount of error reduction				
		Stop when best split results in too small of an error reduction				
1 point	7.	Consider decision tree T1 learned with minimum node size parameter = 1000. Now consider decision tree T2 trained on the same dataset and parameters, except that the minimum node size parameter is now 100. Which of the following is always true? The depth of T2 >= the depth of T1 The number of nodes in T2 >= the number of nodes in T1				
			error of T2 <= th			
		The train	ning error of T2	<= the trainin	g error of T1	
1 point	8.	Questions 8 to 1	1 refer to the fo	llowing comn	non scenario:	
					ve are at a node. Each data point is (x1, x2, y), ne data at this node is:	
			x2	10		
		x1		У		
		x1 0	1 0	y +1 +1		
		0	1	+1		
		0	0	+1		
		0 1 0	1 0 1	+1 +1 +1 -1	ssuming a majority class classifier)?	
		0 1 0	1 0 1	+1 +1 +1 -1	ssuming a majority class classifier)?	
1 point	9.	0 1 0 1 What is the class	1 0 1 1	+1 +1 +1 -1		
	9.	0 1 0 1 What is the class 0.25 Refer to the scen	1 0 1 sification error at	+1 +1 +1 -1 t this node (as		
	9.	0 1 0 1 What is the class 0.25	1 0 1 sification error at	+1 +1 +1 -1 t this node (as		
		0 1 0 1 What is the class 0.25 Refer to the scen If we split on x1, 0.25 Refer to the scen	1 0 1 sification error at the class	+1 +1 -1 t this node (as	c. or?	
point 1		0 1 0 1 What is the class 0.25 Refer to the scen If we split on x1, 0.25 Refer to the scen If we split on x2,	1 0 1 sification error at the class	+1 +1 -1 t this node (as	c. or?	
point 1		0 1 0 1 What is the class 0.25 Refer to the scen If we split on x1, 0.25 Refer to the scen	1 0 1 sification error at the class	+1 +1 -1 t this node (as	c. or?	
point 1	10.	0 1 0 1 What is the class 0.25 Refer to the scen If we split on x1, 0.25 Refer to the scen If we split on x2, 0.25	1 0 1 sification error at a sification error	+1 +1 +1 -1 t this node (a) in Question 8 sification error in Question error in Question error	d	
point 1 point	10.	0 1 0 1 What is the class 0.25 Refer to the scen If we split on x1, 0.25 Refer to the scen If we split on x2, 0.25	1 0 1 sification error at a sification error	+1 +1 +1 -1 t this node (a) in Question 8 sification error in Question error in Question error	d	



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