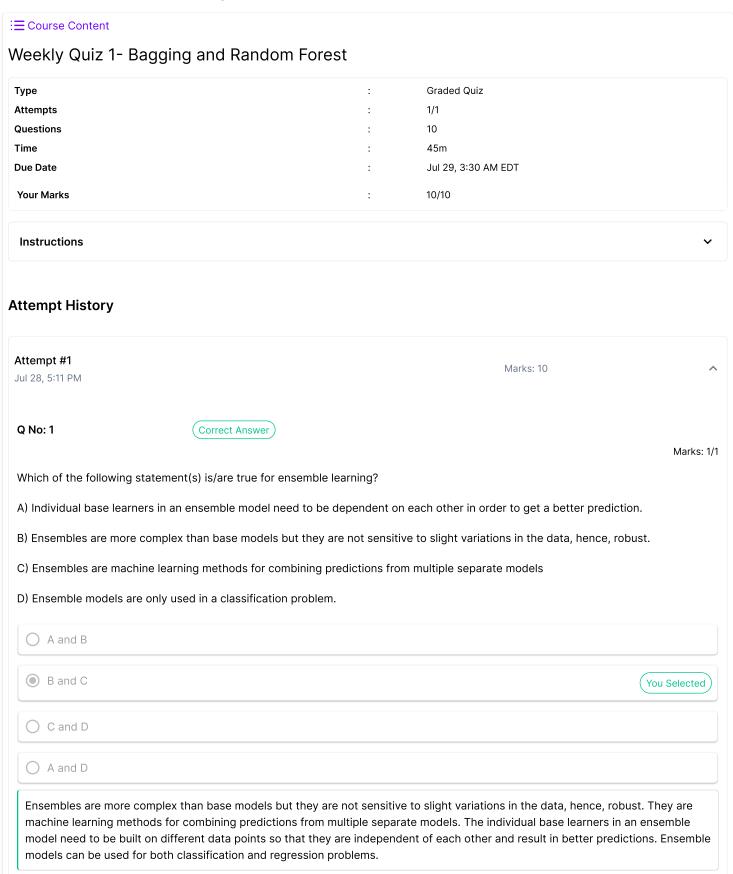








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Q No: 2	Correct Answer	
Which of the following s	statement(s) is/are true?	Marks: 1/1
Random forest is random forest instregression.	not necessarily built using decision lead of decision trees as long as the n employ n number of models as lor	trees. Other supervised learning algorithms can be employed to create a e ensemble contains one particular type of task i.e. either classification or as the models are of the same type. For example, a bagging classifier can
Only 1		
Only 2		You Selected
1 and 2		
None		
In bagging, we can us of decision trees only.		gorithm, however, for the random forest, we can use n number of estimators
Q No: 3	Correct Answer	
Which of the following	statement(s) is/are true for bagging	Marks: 1/1
	umber of rows sampled and N is th	
A) n can never be equal	to N	
B) n can be equal to N		
C) n can be less than N		
D) n can never be less t	han N	
Only A		
Only B		
O A and C		
B and C		You Selected
In bagging, if n is the	number of rows sampled and N is tl	ne total number of rows, then n<=N since n is the subset of N.
Q No: 4	Correct Answer	Marks: 1/1

Select whether the following statement is True or False for Random Forest: "A subset of rows is selected for each individual tree and a subset of columns is used to choose the best split at each level." True You Selected False In ensemble models, we draw a subset of data, build multiple classifiers, and then combine the output of all the models to make predictions. The basic idea of a random forest is that we draw multiple samples (rows) and for an individual tree/classifier we use a subset of features (columns). For e.g., There are 100 rows and 10 columns. Multiple subsets are selected using sampling with replacement. Let's say we draw 10 samples from the rows. We are to build 10 classifiers and each time we will take a subset of columns to build a tree. This way we use a subset of both rows and columns to build an individual tree. Q No: 5 Correct Answer Marks: 1/1 In a given dataset, there are M columns. Out of these M, m columns are chosen each time for creating training samples for the individual trees in a random forest. What will happen if A - m is almost equal to M B - m is very small A will result in a weak tree but B will result in a very robust tree A will result in a robust tree but B will result in a weak tree A will result in high correlation among individual trees resulting in lack of diversity, and B will result in very weak You Selected individual trees A will have weak individual trees but B will result in high correlation among individual trees A will result in a high correlation among the individual trees resulting in a lack of diversity and the final output won't be reliable, on the other hand, B will result in very weak individual trees. Q No: 6 Correct Answer Marks: 1/1 Select the statement(s) that highlight the key difference(s) between Bagging and Random Forest A) Bagging considers all the features to decide the best split while Random Forest selects only a subset of features. B) Bagging can have any number of estimators while Random Forest can not have any number of estimators.

Only A		You Selected
Only B		
Only C		
O Both A and C		
Bagging considers all t	the features to decide the best split while Random Forest selects only a subset of features.	
No: 7	Correct Answer	
n a random forest, wha	t does the out-of-bag (OOB) error rate indicate?	Marks:
Mean prediction e	rror on each training sample x_i , using only the trees that did have x_i in their bootstrap sample	
Mean prediction e sample	rror on each training sample \mathbf{x}_{i} , using only the trees that did NOT have \mathbf{x}_{i} in their bootstrap	You Selected
Mean prediction e	rror on each testing sample x _i	
Total prediction er	ror on each testing sample x_i	
		heir bootstrap
OOB error rate is the n	ror on each testing sample x _i	heir bootstrap
OOB error rate is the n sample. No: 8	ror on each testing sample x_i nean prediction error of each training sample x_i by using only the trees that did not have x_i in t	
OOB error rate is the n sample. No: 8 Which of the following a	ror on each testing sample x_i nean prediction error of each training sample x_i by using only the trees that did not have x_i in to Correct Answer are true for 'class_weight' in the random forest for binary classification?	heir bootstrap Marks:
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OOB error rate is the n sample. No: 8 Which of the following and the sample of the sample. It is used when classes the sample of the sample.	ror on each testing sample x_i nean prediction error of each training sample x_i by using only the trees that did not have x_i in the contract of the	
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The bootstrap samples created during Bootstrap aggregation (Bagging) are created by sampling the data and orderly, without replacement orderly, with replacement randomly, with replacement randomly, with replacement randomly, with replacement randomly, with replacement vou Select The bootstrap samples created during Bootstrap aggregation (Bagging) are created by sampling the data randomly and with a replacement which may lead to the repetition of some of the samples. No: 10 Correct Answer Which of the following parameters can you vary to tune a random forest model? The number of features to consider when looking for the best split Number of estimators in the forest 1 only 2 only			
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randomly, without replacement randomly, with replacement randomly, with replacement replacement which may lead to the repetition of some of the samples. No: 10 Correct Answer Mark The houtber of features to consider when looking for the best split Number of estimators in the forest 1 only 2 only Both the above two parameters can be varied to tune a random forest model Then above two parameters can be varied to tune a random forest model	orderly, withou	ut replacement	
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