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Score: 73%

No. of questions: 8

Correct answer: 5

Incorrect answer: 3

Show incorrect attempt only

1 Mark Question 1

What is the right sequence of steps while building a random forest:

- 1. Use feature sampling for each split in the decision tree.
- 2. Build a decision tree on every sample.
- 3. Create bootstrap Samples.
- 4. Aggregate all decision trees.

1, 2, 3, 4 Α

4, 3, 2, 1 В

C 3, 2, 1, 4



4, 1, 2, 3 D

**Correct Answer:** C. 3, 2, 1, 4

To build a random forest model, we first have to create bootstrap samples, then build a decision tree on every sample, use feature sampling for each split in decision tree and finally, aggregate all the

decision trees.



Video



Text Chapter

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Correct Answer: B. False

A feature can be considered multiple times for every tree of a random forest.

Question 3 a marks

What do you understand by bagging?

- A Bagging is a standalone predictive model by itself.
- B It is the other name of bootstrapping.
- C It is the process of aggregation of the results from diverse predictive models.
- D It is the combined process of bootstrapping and aggregation of the predictions generated from the diverse models.



**Correct Answer:** D. It is the combined process of bootstrapping and aggregation of the predictions generated from the diverse models.

Bagging is the combined process of bootstrapping and aggregating predictions from diverse models.

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	ber of tree should be as l will have interpretability	arge as possible after using RandomForest		
Α	i			⊗
В	ii			
С	Both i and ii			
D	None of the above			
aı	nd the random forest may ove	nators, there is no significant improveme erfit. Secondly, as random forest build m nodel is not very interpretable.		
ues	tion 5 🔮			2 Marks
ow ca	nn we select best hyperpa	arameters in tree based models?		
Α	By measuring perform	ance over training data		
В	By measuring perform	ance over validation data		<b>Ø</b>
С	Both A and B			
D	None of the above			
	Prev	suring performance over validation	n data	Next 🔪

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learning/screen/6240)



## White of the following is true about feature sampling in random forest?

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- A Feature sampling takes place with replacement
- B Feature sampling takes place at tree level
- C Feature Sampling takes place at Node level
- D Feature Sampling does not consider replacement

E Both C and D



Correct Answer: E. Both C and D

Features are sampled at each node of a tree and it does not consider any replacement.