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Course Content

2.6 Test your understanding

Type	:	Practice Quiz
Questions	:	5
Scoring Policy	:	Highest Score
Your Marks	:	4/5

Instructions

RETAKE

Attempt History

Attempt #1
Aug 11, 7:40 AM

Marks: 4

Q No: 1 Correct Answer

Marks: 1/1

Which of the following predictive model(s) do not have an option to give more weightage(class_weight) to a certain class for classification problems?

- [ ] Decision Tree
- [ ] Random Forest
- [x] Gradient Boost — You Selected
- [x] XGBoost — You Selected

Gradient Boost and XGB do not have an option to give more weightage to a certain class using class_weight.

Q No: 2 Correct Answer

Marks: 1/1

Select True or False for the following statement:

In XGBoost, gamma is a hyperparameter that specifies the minimum loss reduction required to make a split.

- (●) True — You Selected
- ( ) False

Gamma is a hyperparameter available in XGB that specifies the minimum loss reduction required to make a split.

Q No: 3 Incorrect Answer

Marks: 0/1

Select True or False for the following statement:

In Gradient Boosting, init is a hyperparameter that specifies the base estimator of the algorithm.

- (●) True — You Selected
- ( ) False — Correct Option

In Gradient Boosting, init is a hyperparameter that specifies an estimator object that is used to compute the initial predictions.

Q No: 4 Correct Answer

Marks: 1/1

Which of the following statement(s) is/are correct for AdaBoost?

- [x] An AdaBoost classifier is a meta-estimator that begins by fitting a classifier on the original dataset — You Selected
- [x] The weights of incorrectly classified instances are adjusted such that subsequent classifiers focus more on difficult cases. — You Selected
- [x] The default base estimator is a decision tree with max_depth=1 — You Selected
- [ ] The base estimator can not be changed in AdaBoost implementation of sklearn.

Q No: 5 Correct Answer

Marks: 1/1

Which of the following hyperparameter(s) is/are common in AdaBoost, Gradient Boost, and XGBoost?

- [x] random_state — You Selected
- [x] learning_rate — You Selected
- [ ] subsample
- [x] n_estimators — You Selected

The 'subsample' hyperparameter is available in Gradient Boost and XGBoost but not in AdaBoost.

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