Knowledge Check

Knowledge Check

1

What is the difference between sequential and parallel ensemble techniques?

A. In sequential ensemble, base learners are generated in parallel, and in parallel ensemble, learners are generated consecutively.

B. The sequential technique is applied when the base learners are generated in parallel, and the parallel is applied when the learners are generated consecutively.

C. The sequential technique uses dependence between the base learners to reduce error, whereas the parallel technique uses independence between the base learners to reduce error.

D. There is no difference between sequential and parallel ensemble techniques.

Knowledge Check 1

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C. The sequential technique uses dependence between the base learners to reduce error, whereas the parallel technique uses independence between the base learners to reduce error.

D. There is no difference between sequential and parallel ensemble techniques.

The correct answer is **C**

Sequential technique uses dependence between the base learners to reduce error, whereas the parallel technique uses independence between the base learners to reduce errors.

Knowledge Check

2

What is the purpose of averaging and voting techniques?

A. To reduce errors in the model

B. To reduce the variance in the model

C. To increase the bias in the model

D. To increase the variance in the model

Knowledge Check 2

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C. To increase the bias in the model

D. To increase the variance in the model

The correct answer is **A**

Averaging and voting techniques are used to reduce errors in the model.

Knowledge Check 3

Which of the following ensemble learning techniques involves combining predictions from multiple base models to make a final prediction?

A. Bagging

B. Max voting

C. AdaBoost

D. Blending ensemble

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The correct answer is **D**

Blending ensemble combines predictions using weighted averaging, allowing diverse model contributions for more robust predictions.

Thank You