

Congratulations! You passed!
Grade received 100%
To pass 80% or higher
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1. Fill in the blank: The supervised learning technique boosting builds an ensemble of weak learners _____, then aggregates their predictions. 1 / 1 point

- ☐ in parallel
- ☐ repeatedly
- ☐ randomly
- ☒ sequentially

☒ Correct
The supervised learning technique boosting builds an ensemble of weak learners sequentially, then aggregates their predictions.

2. When using a gradient boosting machine (GBM) modeling technique, which term describes a model's ability to predict new values that fall outside of the range of values in the training data? 1 / 1 point

- ☒ Extrapolation
- ☐ Learning rate
- ☐ Grid search
- ☐ Cross validation

☒ Correct
When using a gradient boosting machine (GBM) modeling technique, extrapolation describes a model's ability to predict new values that fall outside of the range of values in the training data.

3. When using the hyperparameter min_child_weight, a tree will not split a node if it results in any child node with less weight than what is specified. What happens to the node instead? 1 / 1 point

- ☐ It becomes a root.
- ☐ It duplicates itself to become another node.
- ☐ It gets deleted.
- ☒ It becomes a leaf

☒ Correct
When using the hyperparameter min child weight, a tree will not split a node if it results in any child node with less weight than what is specified. Instead, the node becomes a leaf.