Intro_DS

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Which of the following best describes **data leakage** in a machine learning workflow?

○ A. When the model uses only a subset of training data for evaluation

⦿ B. When the model accesses information from validation or test data during training

○ C. When too many hyperparameters are tuned

○ D. When the model underfits the training data

In the **bias–variance trade-off**, which statement is *most accurate* according to the slides?

○ A. Increasing model complexity always decreases both bias and variance

○ B. High bias models perform well on both training and test data

○ C. Regularization increases variance but reduces bias

⦿ D. Increasing complexity reduces bias but may increase variance

What is the key difference between supervised and unsupervised learning goals?

○ A. Supervised learning reduces data size, while unsupervised increases it

○ B. Supervised learning finds structure in unlabeled data

◉ C. Supervised learning predicts known outcomes, while unsupervised finds hidden patterns

○ D. Both require labeled data but use different metrics

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