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15 April quizz

6 out of 6 correct

1.	What is the	purpose of	using a	pipeline	in Random	Forest classifier?

	To automate the feature engineering process
\bigcirc	To automatically tune hyperparameters of the model
\bigcirc	To optimize the model training time
	To reduce overfitting in the model

Explanation: A pipeline in machine learning is used to automate the data preprocessing steps, such as feature engineering, feature selection, and data scaling. By using a pipeline, the feature engineering process can be automated, which can save time and reduce the chances of human error.

2. What is hyperparameter tuning in the context of Random Forest classifier?

\bigcirc	Automatically selecting the best features from the dataset
	Automatically selecting the best algorithm for model training



Automatically scaling the input features

Explanation: Hyperparameter tuning involves automatically searching for the best values of hyperparameters of a machine learning model, such as the number of trees, maximum depth of trees, and minimum samples required to split a node in the case of Random Forest. This can help optimize the performance of the model.



	/hat is the main benefit of using feature engineering automation in andom Forest classifier?
\bigcirc	Improved model interpretability
\bigcirc	Reduced risk of overfitting
\bigcirc	Faster model training time
	Better model performance
auto featu iden	mation: Feature engineering automation in Random Forest classifier can matically select relevant features, transform data, and create new ures, which can lead to better model performance. By automatically tifying and using the most important features, the model can make more urate predictions.
	hat is the purpose of using hyperparameter tuning in Random Forest lassifier?
\bigcirc	To automatically select the best features from the dataset
\bigcirc	To automatically select the best algorithm for model training
\bigcirc	To optimize the model training time
	To find the best values for
	hyperparameters of the model
sear max	anation: Hyperparameter tuning in Random Forest classifier involves ching for the best values of hyperparameters, such as the number of trees, imum depth of trees, and minimum samples required to split a node, in r to optimize the performance of the model.
	/hat is the purpose of using a pipeline in Random Forest classifier with eature engineering automation?
\bigcirc	To automatically select the best features from the dataset
\bigcirc	To automatically select the best algorithm for model training
	To automatically perform feature engineering tasks

Explanation: A pipeline in Random Forest classifier with feature engineering
automation can automatically perform tasks such as feature selection, feature
transformation, and feature creation, which can save time and reduce the
chances of human error in the feature engineering process.

6. How can hyperparameters be tuned in Random Forest classifier?

\bigcirc	Manually changing the	hyperparameter values	in the code
\sim			

Automatically searching for the best hyperparameter values



Randomly selecting hyperparameter values

O To automatically scale the input features

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Explanation: Hyperparameters in Random Forest classifier can be tuned by automatically searching for the best values using techniques such as grid search, random search, or Bayesian optimization. This can help optimize the performance of the model.

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