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GIAC Machine Learning Engineer

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Question: 1

Why is feature scaling important in machine learning?
Response:

A. It increases the number of features
B. It helps in handling missing data
C. It makes the model training process faster
D. It ensures that different features contribute equally to the model training

Answer: D

Question: 2

What is the main advantage of using a 'bagging' approach in ensemble learning?
Response:

A. To enhance the speed of training models
B. To reduce the variance of the model
C. To increase the bias in the model
D. To optimize individual model parameters

Answer: B

Question: 3

In deep learning, 'dropout' is a technique used to:
Response:

A. Prevent overfitting
B. Speed up computations
C. Increase model accuracy
D. Reduce data dimensionality

Answer: A

Question: 4

Which of the following describes a decision tree in supervised learning?

Response:

A. A tree-like structure used for clustering data points
B. A model that makes decisions by splitting data into branches based on feature values
C. A neural network with multiple hidden layers
D. An algorithm that groups data points into clusters without labels

Answer: B

Question: 5

Which of the following are common supervised learning algorithms?
(Choose two)
Response:

A. Linear Regression
B. k-means
C. Random Forest
D. DBSCAN

Answer: A,C

Question: 6

Which strategies can be applied to improve the anomaly detection performance of an autoencoder?
(Choose two)
Response:

A. Increase the size of the latent space
B. Reduce the number of hidden layers
C. Add regularization techniques such as L1 or L2
D. Train the autoencoder on both normal and anomalous data

Answer: C,D

Question: 7

Which Python library is most commonly used for data manipulation in machine learning?
Response:

A. Matplotlib
B. TensorFlow
C. Scikit-learn
D. Pandas

Answer: D

Question: 8

Which two types of probabilities are essential in machine learning applications?
(Choose two)
Response:

A. Conditional probability
B. Absolute probability
C. Marginal probability
D. Uncertainty probability

Answer: A,C

Question: 9

In machine learning, what is the primary goal of optimization algorithms?
Response:

A. To improve the accuracy of predictions
B. To reduce the computational complexity
C. To enhance data visualization techniques
D. To increase data storage efficiency

Answer: A

Question: 10

Which are common sources of data used in machine learning pipelines?
(Choose two)
Response:

A. APIs
B. Manual calculations
C. Web scraping
D. Model ensembling

Answer: A,C

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