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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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