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GIAC Machine Learning Engineer

Questions & Answers PDF

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Question: 1

Which activation function is typically used in the output layer of a neural network for binary classification?

Response:

- A. ReLU
- B. Sigmoid
- C. Tanh
- D. Softmax

Answer: B

Question: 2

Unsupervised learning is primarily used for:

Response:

- A. Predicting outcomes based on labeled data
- B. Finding hidden patterns in unlabeled data
- C. Classification tasks with predefined categories
- D. Regression analysis with continuous output

Answer: B

Question: 3

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: 4

Which metric is commonly used to evaluate the performance of a classification model?

Response:

- A. Root Mean Squared Error (RMSE)
- B. Mean Absolute Error (MAE)
- C. Accuracy
- D. R-squared

Answer: C

Question: 5

How does Stochastic Gradient Descent differ from traditional Gradient Descent in optimization techniques in ML?

Response:

- A. Updating model parameters after evaluating the entire dataset
- B. Using a fixed learning rate throughout the training process
- C. Updating model parameters after evaluating each data point
- D. Eliminating the need for a learning rate

Answer: C

Question: 6

Overfitting in supervised learning models refers to:

Response:

- A. Models performing equally on training and test data
- B. Models that are too simplistic to capture underlying patterns
- C. Models capturing noise in the training data as if it were a true signal
- D. The process of training models on large datasets

Answer: C

Question: 7

What does the term 'boosting' refer to in the context of machine learning algorithms?

Response:

- A. Decreasing the computational complexity of models
- B. Sequentially building models to correct the errors of previous ones
- C. Combining several weak models to form a strong model
- D. Both B and C

Answer: D

Question: 8

In machine learning, what is 'feature engineering'?

Response:

- A. The process of choosing the right machine learning model
- B. The creation and optimization of new features from existing data
- C. The selection of the best features for model training
- D. The visualization of data features

Answer: B

Question: 9

Stochastic Gradient Descent differs from traditional Gradient Descent by:

Response:

- A. Updating model parameters after evaluating the entire dataset
- B. Using a fixed learning rate throughout the training process
- C. Updating model parameters after evaluating each data point
- D. Eliminating the need for a learning rate

Answer: C

Question: 10

What is a common use of CNNs in image processing?

Response:

- A. Audio signal processing
- B. Sequence prediction
- C. Feature extraction
- D. Data storage optimization

Answer: C



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