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AI-Fundamentals

ISACA Artificial Intelligence Fundamentals

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Question: 1

What type of AI involves machines that learn from rewards and penalties to achieve a goal?
Response:

- A. Unsupervised learning
- B. Supervised learning
- C. Reinforcement learning
- D. Deep learning

Answer: C

Question: 2

Which AI model is often used for image recognition tasks?
Response:

- A. Linear Regression
- B. Convolutional Neural Network (CNN)
- C. Decision Tree
- D. K-Nearest Neighbors (KNN)

Answer: B

Question: 3

What is one advantage of using cloud-based AI services?
Response:

- A. Unlimited storage without cost
- B. Elimination of data preprocessing
- C. Reduced network security risks
- D. Immediate access to specialized hardware and scalability

Answer: D

Question: 4

Which AI technique is best suited for analyzing customer purchase history and suggesting similar products?

Response:

- A. Supervised learning
- B. Unsupervised learning
- C. Reinforcement learning
- D. Deep learning

Answer: A

Question: 5

In AI ethics, which principle stresses the importance of keeping users informed about how AI is used?

Response:

- A. Transparency
- B. Efficiency
- C. Reliability
- D. Security

Answer: A

Question: 6

Which of the following metrics is typically used to evaluate classification models?

Response:

- A. Mean Absolute Error
- B. Root Mean Squared Error
- C. Accuracy
- D. R-squared

Answer: C

Question: 7

In machine learning, what is a labeled dataset used for?

Response:

- A. For unsupervised learning

- B. For supervised learning
- C. To store neural network data
- D. To enhance hardware performance

Answer: B

Question: 8

Which of the following is commonly used to train an AI model to identify patterns in images?
Response:

- A. Decision trees
- B. Random forest
- C. Convolutional Neural Networks (CNNs)
- D. Linear regression

Answer: C

Question: 9

Choose the correct features of a decision tree:
Response:

- A. Splits data based on attributes
- B. Organizes data in a linear sequence
- C. Utilizes a tree-like structure
- D. Requires labeled data

Answer: A,C,D

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