Middle School Intro to AI and Machine Learning

Computer Science · Answer Key · 10 Questions

1. What does the abbreviation "AI" stand for in computer science?

A) Artificial Intelligence
B) Automated Information
C) Advanced Integration
D) Applied Internet

2. Which branch of AI focuses on enabling systems to learn and improve from data without being explicitly programmed?

A) Machine Learning
B) Hardware Engineering
C) Manual Coding
D) Web Hosting

3. In machine learning, what is the collection of data used to teach a model called?

A) Training data
B) Output file
C) Power supply
D) User manual

4. Which field of AI enables computers to understand, interpret, and generate human written or spoken text?

A) Natural Language Processing
B) Computer Graphics
C) Database Management
D) Network Routing

5. What area of AI focuses on allowing computers to identify and process objects in images and videos?

A) Computer Vision
B) Audio Processing
C) Cloud Storage
D) Virtual Memory

6. In supervised machine learning, what key feature distinguishes the training data?

A) It contains labeled examples
B) It consists only of random numbers
C) It is completely unorganized
D) It runs without a processor

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7. What is the term for a step-by-step set of rules or instructions followed by a computer to solve a problem?

A) An algorithm
B) A monitor
C) A device driver
D) A hard drive

8. What type of AI application is specifically designed to simulate text or voice conversations with human users?

A) A chatbot
B) A spreadsheet
C) A graphic editor
D) An operating system

9. Artificial neural networks in machine learning were originally inspired by the structure of which biological system?

A) The human brain
B) The digestive tract
C) Plant photosynthesis
D) The circulatory system

10. What term describes systematic, unfair outcomes in AI predictions caused by skewed or unrepresentative training data?

A) Algorithmic bias
B) Data compression
C) System reboot
D) Hardware overheating

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