

Huawei

H13-311_V3.5

HCIA-AI V3.5 Exam

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Question: 1

As we understand more about machine learning, we will find that its scope is constantly changing over time.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

Machine learning is a rapidly evolving field, and its scope indeed changes over time. With advancements in computational power, the introduction of new algorithms, frameworks, and techniques, and the growing availability of data, the capabilities of machine learning have expanded significantly. Initially, machine learning was limited to simpler algorithms like linear regression, decision trees, and k-nearest neighbors. Over time, however, more complex approaches such as deep learning and reinforcement learning have emerged, dramatically increasing the applications and effectiveness of machine learning solutions.

In the Huawei HCIA-AI curriculum, it is emphasized that AI, especially machine learning, has become more powerful due to these continuous developments, allowing it to be applied to broader and more complex problems. The framework and methodologies in machine learning have evolved, making it possible to perform more sophisticated tasks such as real-time decision-making, image recognition, natural language processing, and even autonomous driving.

As technology advances, the scope of machine learning will continue to shift, providing new opportunities for innovation. This is why it is important to stay updated on recent developments to fully leverage machine learning in various AI applications.

Reference: Huawei HCIA-AI Certification, Machine Learning Overview.

Question: 2

As the cornerstone of Huawei's full-stack, all-scenario AI solution, it provides modules, boards, and servers powered by the Ascend AI processor to meet customer demand for computing power in all scenarios.

- A. Atlas
- B. CANN
- C. MindSpore
- D. ModelArts

Answer: A

Explanation:

Atlas is a key part of Huawei's full-stack, all-scenario AI solution. It provides AI hardware resources in the form of modules, boards, edge stations, and servers powered by Huawei's Ascend AI processors. The Atlas series is designed to meet customer demands for AI computing power in a variety of deployment scenarios, including cloud, edge, and device environments.

Huawei's full-stack AI solution aims to deliver comprehensive AI capabilities across different levels. The Atlas series supports a wide range of industries by offering scalable AI computing resources, which are critical for industries dealing with large volumes of data and needing high-performance computing.

Reference: Huawei HCIA-AI Certification, Introduction to Huawei AI Platforms.

Question: 3

Huawei's full-stack AI solution includes Ascend, MindSpore, and ModelArts. (Enter an acronym.)

- A. All
- B. AIIS
- C. CANN
- D. None of the above

Answer: C

Explanation:

CANN (Compute Architecture for Neural Networks) is part of Huawei's full-stack AI solution, which includes Ascend (hardware), MindSpore (AI framework), and ModelArts (AI development platform).

CANN optimizes the computing efficiency of AI models and provides basic software components for the Ascend AI processors. This architecture supports deep learning and machine learning tasks by enhancing computational performance and providing better neural network training efficiency.

Together, Ascend, MindSpore, and CANN form a critical infrastructure that underpins Huawei's AI development ecosystem, allowing seamless integration from hardware to software.

Reference: Huawei HCIA-AI Certification, AI Development Framework and Platforms.

Question: 4

The concept of "artificial intelligence" was first proposed in the year of:

- A. 1950
- B. 1956
- C. 1960
- D. 1965

Answer: B

Explanation:

The concept of "artificial intelligence" was first formally introduced in 1956 during the Dartmouth

Conference, organized by John McCarthy, Marvin Minsky, Nathaniel Rochester, and Claude Shannon. This event is widely regarded as the birth of AI as a field of study. The conference aimed to explore the idea that human intelligence could be simulated by machines, laying the groundwork for subsequent AI research and development.

This date is significant in the history of AI because it marked the beginning of a concentrated effort to develop machines that could mimic cognitive functions such as learning, reasoning, and problemsolving.

Reference: Huawei HCIA-AI Certification, AI Overview.

Question: 5

Which of the following are subfields of AI?

- A. Backpropagation algorithm
- B. Expert system
- C. Smart finance
- D. Computer vision

Answer: B, D

Explanation:

Artificial intelligence is a broad field that encompasses several subfields. Two key subfields are: Expert systems, which are computer programs that mimic the decision-making abilities of a human expert by reasoning through bodies of knowledge. These systems are used in various domains such as healthcare, engineering, and finance.

Computer vision, which enables machines to interpret and understand visual data from the world. It includes tasks such as object detection, image recognition, and video analysis.

While options like backpropagation and smart finance are related to AI, they represent specific algorithms or application areas rather than broad subfields.

Reference: Huawei HCIA-AI Certification, AI Overview and Applications.

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