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Artificial Intelligence Quiz Answer Key PDF

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Which industry commonly uses AI for fraud detection?

A. Healthcare

B. Education

C. Finance ✓

D. Agriculture

What is the Turing Test designed to evaluate?

A. The speed of a computer

B. The intelligence of a machine ✓

C. The efficiency of an algorithm

D. The security of a system

What is the primary goal of Artificial Intelligence?

A. To replace human jobs

B. To simulate human intelligence in machines ✓

C. To create robots

D. To develop new languages

Who is credited with coining the term "Artificial Intelligence"?

A. Alan Turing

B. John McCarthy ✓

C. Marvin Minsky

D. Herbert Simon

What is the main function of Natural Language Processing (NLP) in AI?

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A. To process visual data

B. To understand and interpret human language ✓

C. To simulate neural networks

D. To enhance machine learning algorithms

Which type of AI is designed to perform a specific task?

A. General AI

B. Superintelligent AI

C. Narrow AI ✓

D. Universal AI

Explain the difference between Narrow AI and General AI.

A. Narrow AI is more advanced than General AI.

B. Narrow AI is designed for specific tasks, while General AI aims to perform any intellectual task that a human can do. ✓

C. General AI is only theoretical.

D. Narrow AI can learn from experience, while General AI cannot.

Describe how AI can impact job markets and employment.

A. AI will eliminate all jobs.

B. AI can lead to job displacement by automating tasks, but it can also create new job opportunities in AI development and maintenance. ✓

C. AI will have no impact on jobs.

D. AI will only create low-skilled jobs.

What are the potential benefits and risks of using AI in healthcare?

A. AI will completely replace doctors.

B. Benefits include improved diagnostics and personalized medicine; risks involve data privacy and potential biases in AI systems. ✓

C. AI has no impact on healthcare.

D. AI will only increase healthcare costs.

What is a major concern regarding AI and employment?

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A. AI will create too many jobs

B. AI will make jobs more complex

C. AI will lead to job displacement ✓

D. AI will have no impact on jobs

Which of the following are types of AI? (Select all that apply)

A. Narrow AI ✓

B. General AI ✓

C. Superintelligent AI ✓

D. Quantum AI

What are the components of AI? (Select all that apply)

A. Machine Learning ✓

B. Neural Networks ✓

C. Quantum Computing

D. Natural Language Processing ✓

Which technologies are essential for autonomous vehicles? (Select all that apply)

A. Sensor data processing ✓

B. Blockchain

C. Navigation systems ✓

D. Computer Vision ✓

Which AI techniques are used in Machine Learning? (Select all that apply)

A. Supervised Learning ✓

B. Deep Learning ✓

C. Reinforcement Learning ✓

D. Genetic Algorithms ✓

Discuss the role of ethics in the development and deployment of AI technologies.

A. Ethics are not important in AI development.

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B. **Ethics guide the responsible use of AI, addressing issues like bias, fairness, and privacy to ensure AI benefits society.** ✓

C. AI should operate without ethical considerations.

D. Ethics only apply to human actions, not AI.

How does reinforcement learning differ from other types of machine learning?

A. Reinforcement learning is the same as supervised learning.

B. **Reinforcement learning involves learning by interacting with an environment and receiving feedback, unlike supervised learning which uses labeled data.** ✓

C. Reinforcement learning is only theoretical.

D. Reinforcement learning does not require feedback.

What are some historical milestones in the development of Artificial Intelligence?

A. AI has no historical milestones.

B. **Key milestones include the creation of the Turing Test, the development of expert systems, and advancements in neural networks.** ✓

C. AI development started in the 21st century.

D. AI has always been a theoretical concept.

Which of the following are applications of AI in healthcare? (Select all that apply)

A. Diagnostics ✓

B. Personalized medicine ✓

C. Robotic surgery ✓

D. Weather forecasting

What are some ethical concerns associated with AI? (Select all that apply)

A. Bias and fairness ✓

B. Data privacy ✓

C. Energy consumption

D. Job displacement ✓

Which of the following is a subset of Machine Learning that uses neural networks with many layers?

A. Deep Learning ✓

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B. Reinforcement Learning

C. Supervised Learning

D. Unsupervised Learning

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