**AI Basics Pre-Assessment**

Which three applications are most suited for deep learning models due to their ability to handle complex data? (Choose three.)

Parte superior do formulário

* image recognition in medical diagnostics
* autonomous navigation in self-driving cars
* credit scoring in financial services
* movie recommendation systems
* voice-activated virtual assistants
* real-time fraud detection

Question 2

What is a primary characteristic of advanced AI systems that differentiates them from basic rule-based systems?

Parte superior do formulário

* They perform tasks based solely on pre-defined rules.
* They adapt and improve performance by learning from data.
* They do not require any form of data input.
* They are limited to simple automation tasks.

Parte inferior do formulário

Question 3

What are three characteristics of traditional AI systems? (Choose three.)

Parte superior do formulário

* They rely on symbolic representation and formal logic.
* They are highly interpretable and transparent.
* They use neural networks to learn from data.
* They require large datasets to function effectively.
* They employ predefined rules to make decisions.
* They utilize deep learning to improve over time.

Question 4

What primary feature differentiates Generative AI from traditional AI models?

Parte superior do formulário

* use of predefined rules
* ability to process structured data
* capability to generate new content by learning patterns
* reliance on explicit programming

Parte inferior do formulário

Question 5

How does GenAI enhance the software development process?

Parte superior do formulário

* by manually debugging code
* through automating code documentation generation
* by providing inflexible design templates
* by eliminating the need for IDEs

Question 6

Parte inferior do formulário

Why is data cleanliness crucial in training generative AI models?

Parte superior do formulário

* It reduces computational costs.
* It enhances user experience.
* It ensures the quality of the output.
* It accelerates model deployment.

Question 7

What is a critical task in the retraining of AI models for network automation?

Parte superior do formulário

* ignoring the dataset quality
* using outdated data for training
* avoiding model optimization
* ensuring the dataset aligns with expected model behavior

Parte inferior do formulário

Question 8

In what three ways can AI contribute to the development of smart cities? (Choose three.)

Parte superior do formulário

* by optimizing public transportation scheduling and route planning
* by increasing manual traffic management
* by monitoring environmental factors such as air and water quality
* by improving reaction time to utility outages
* by reducing the number of IoT devices in the city
* by ignoring data from city sensors

Question 9

How can AI help with proactive threat hunting?

Parte superior do formulário

* by actively scanning and analyzing a system to seek out threats before they become more damaging
* by ignoring atypical login behavior
* by increasing the number of security breaches
* by reducing the number of security protocols

Question 10

What are two advantages of using GPUs and TPUs in AI-ML clusters? (Choose two.)

Parte superior do formulário

* enhanced parallel processing
* improved performance for deep learning tasks
* reduced power consumption
* simplified software development
* lower cost
* increased storage capacity

Question 11

Which three factors contribute to the scalability of AI-ML clusters? (Choose three.)

Parte superior do formulário

* centralized data storage
* high-speed network fabric
* manual configuration
* containerized applications
* single-node processing
* orchestration tools like Kubernetes

Question 12

Which three factors should be considered when choosing the deployment strategy for AI/ML services? (Choose three.)

Parte superior do formulário

* user interface design
* latency requirements
* data privacy regulations
* cost constraints
* model architecture
* training dataset size

Question 13

Why is it important to verify the output of GPT-generated code in Jupyter Lab?

Parte superior do formulário

* GPT models always produce flawless code.
* Verifying code is unnecessary with advanced models.
* GPT models automatically correct their own errors upon execution.
* GPT-generated code may contain errors that require human verification.

Submit

Parte inferior do formulário

Question 14

What are two benefits of integrating GPT models into Jupyter Lab for network automation tasks? (Choose two.)

Parte superior do formulário

* generating Python code for network configurations
* automatically deploying network hardware
* debugging existing Python scripts
* replacing network engineers entirely

Question 15

Which of the following is a benefit of using GPT models for network automation in Jupyter Lab?

Parte superior do formulário

* They eliminate the need for any human input.
* They automatically fix all code errors without user intervention.
* They assist in generating and debugging code.
* They replace the need for network hardware.

Parte inferior do formulário

Parte inferior do formulário

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