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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.
Topic 2	<ul style="list-style-type: none"> Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
Topic 3	<ul style="list-style-type: none"> Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.
Topic 4	<ul style="list-style-type: none"> Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.
Topic 5	<ul style="list-style-type: none"> Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.

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Amazon AWS Certified AI Practitioner Sample Questions (Q274-Q279):

NEW QUESTION # 274

A company is using a pre-trained large language model (LLM) to build a chatbot for product recommendations. The company needs the LLM outputs to be short and written in a specific language.

Which solution will align the LLM response quality with the company's expectations?

- A. Increase the Top K value.
- B. Increase the temperature.
- C. Choose an LLM of a different size.
- **D. Adjust the prompt.**

Answer: D

NEW QUESTION # 275

An online learning company with large volumes of educational materials wants to use enterprise search. Which AWS service meets these requirements?

- A. Amazon Textract
- B. Amazon Personalize
- C. Amazon Comprehend
- **D. Amazon Kendra**

Answer: D

Explanation:

Comprehensive and Detailed

Amazon Kendra is an enterprise search service that uses machine learning to index and search unstructured data such as documents, manuals, and course materials.

Amazon Comprehend performs NLP tasks like sentiment analysis and entity recognition, not enterprise search.

Amazon Textract extracts structured text from scanned docs and PDFs.

Amazon Personalize builds recommendation systems, not search engines.

Reference:

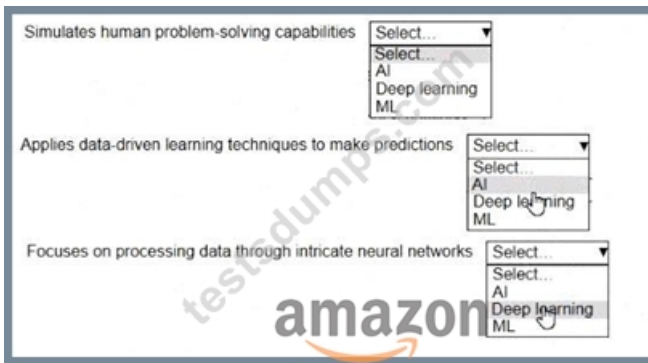
AWS Documentation - Amazon Kendra

NEW QUESTION # 276

HOTSPOT

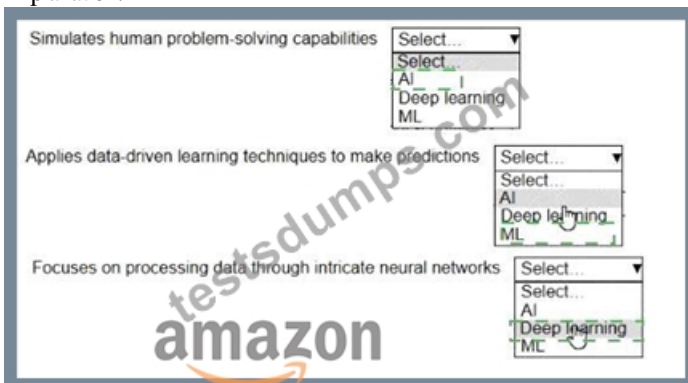
Select the correct AI term from the following list for each statement. Each AI term should be selected one time. (Select THREE.)

- * AI
- * Deep learning
- * ML



Answer:

Explanation:



Explanation:

Simulates human problem-solving capabilities

Applies data-driven learning techniques to make predictions

Focuses on processing data through intricate neural networks

Artificial Intelligence (AI) is the broad field focused on simulating human problem-solving and cognitive abilities, including reasoning, perception, and decision-making.

(Reference: AWS Certified AI Practitioner Official Study Guide)

Machine Learning (ML) is a subset of AI that uses data-driven algorithms to identify patterns and make predictions without explicit programming for each specific task.

(Reference: AWS Machine Learning Overview)

Deep learning is a subset of ML that uses neural networks with many layers (deep neural networks) to process complex data and extract high-level features.

(Reference: AWS Deep Learning on AWS)

NEW QUESTION # 277

A company has terabytes of data in a database that the company can use for business analysis. The company wants to build an AI-based application that can build a SQL query from input text that employees provide. The employees have minimal experience with technology.

Which solution meets these requirements?

- A. Generative pre-trained transformers (GPT)
- B. WaveNet
- C. Residual neural network
- D. Support vector machine

Answer: A

NEW QUESTION # 278

A bank has fine-tuned a large language model (LLM) to expedite the loan approval process. During an external audit of the model, the company discovered that the model was approving loans at a faster pace for a specific demographic than for other demographics.

How should the bank fix this issue MOST cost-effectively?

- A. Pre-train a new LLM with more diverse training data.
- B. Use Retrieval Augmented Generation (RAG) with the fine-tuned model.
- C. Use AWS Trusted Advisor checks to eliminate bias.
- **D. Include more diverse training data. Fine-tune the model again by using the new data.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The best practice for mitigating bias in AI/ML models, according to AWS and responsible AI frameworks, is to ensure that the training data is representative and diverse. If a model demonstrates bias (such as favoring a particular demographic), the recommended, cost-effective approach is to collect additional data from underrepresented groups and retrain (fine-tune) the model with the improved dataset.

A). Include more diverse training data. Fine-tune the model again by using the new data:

"The most effective method to reduce model bias is to curate and include diverse, representative training data, then retrain or fine-tune the model." (Reference: AWS Responsible AI, SageMaker Clarify Bias Mitigation) B (RAG) is unrelated to model fairness or bias mitigation; it's for grounding LLMs with external knowledge.

C (AWS Trusted Advisor) is for AWS resource optimization/security-not for ML model bias detection or mitigation.

D (Pre-train a new LLM) would be extremely costly and is unnecessary; fine-tuning with better data is much more efficient.

References:

Responsible AI on AWS

Amazon SageMaker Clarify: Detecting and Mitigating Bias

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NEW QUESTION # 279

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