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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q163-Q168):

NEW QUESTION # 163

A company wants to use language models to create an application for inference on edge devices. The inference must have the lowest latency possible.

Which solution will meet these requirements?

- A. Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices.
- B. Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices.
- C. Deploy optimized large language models (LLMs) on edge devices.
- **D. Deploy optimized small language models (SLMs) on edge devices.**

Answer: D

NEW QUESTION # 164

Which feature of Amazon OpenSearch Service gives companies the ability to build vector database applications?

- A. Ability to perform real-time analysis on streaming data
- B. Support for geospatial indexing and queries
- **C. Scalable index management and nearest neighbor search capability**
- D. Integration with Amazon S3 for object storage

Answer: C

NEW QUESTION # 165

A company wants to use Amazon Bedrock. The company needs to review which security aspects the company is responsible for when using Amazon Bedrock.

- **A. Securing the company's data in transit and at rest**
- B. Provisioning Amazon Bedrock within the company network
- C. Patching and updating the versions of Amazon Bedrock
- D. Protecting the infrastructure that hosts Amazon Bedrock

Answer: A

Explanation:

* With Amazon Bedrock, AWS handles infrastructure security and patching (shared responsibility model).

* Customers are responsible for securing their data (encryption, IAM, policies) both in transit and at rest.

* Provisioning infrastructure (D) and platform patching (A, B) are AWS responsibilities.

Reference:

AWS Shared Responsibility Model

NEW QUESTION # 166

A company wants to extract key insights from large policy documents to increase employee efficiency.

- A. Regression
- B. Classification
- **C. Summarization**
- D. Clustering

Answer: C

Explanation:

Comprehensive and Detailed

Summarization is a natural language processing (NLP) task that condenses long documents into concise, meaningful summaries while retaining the key information.

Regression predicts numerical values.

Clustering groups similar items.

Classification assigns data into predefined categories.

Reference:

AWS NLP Use Cases - Summarization

NEW QUESTION # 167

Which option is a benefit of ongoing pre-training when fine-tuning a foundation model (FM)?

- **A. Improves model performance over time**
- B. Decreases the training time requirement
- C. Helps decrease the model's complexity
- D. Optimizes model inference time

Answer: A

Explanation:

Ongoing pre-training when fine-tuning a foundation model (FM) improves model performance over time by continuously learning from new data.

* Ongoing Pre-Training:

* Involves continuously training a model with new data to adapt to changing patterns, enhance generalization, and improve performance on specific tasks.

* Helps the model stay updated with the latest data trends and minimize drift over time.

* Why Option B is Correct:

* Performance Enhancement: Continuously updating the model with new data improves its accuracy and relevance.

* Adaptability: Ensures the model adapts to new data distributions or domain-specific nuances.

* Why Other Options are Incorrect:

* A. Decrease model complexity: Ongoing pre-training typically enhances complexity by learning new patterns, not reducing it.

* C. Decreases training time requirement: Ongoing pre-training may increase the time needed for training.

* D. Optimizes inference time: Does not directly affect inference time; rather, it affects model performance.

NEW QUESTION # 168

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