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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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">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 (Q276-Q281):

NEW QUESTION # 276

A company has a foundation model (FM) that was customized by using Amazon Bedrock to answer customer queries about products. The company wants to validate the model's responses to new types of queries. The company needs to upload a new dataset that Amazon Bedrock can use for validation.

Which AWS service meets these requirements?

- A. **Amazon S3**
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon Elastic File System (Amazon EFS)
- D. AWS Snowcone

Answer: A

Explanation:

Amazon S3 is the optimal choice for storing and uploading datasets used for machine learning model validation and training. It offers scalable, durable, and secure storage, making it ideal for holding datasets required by Amazon Bedrock for validation purposes.

* Option A (Correct): "Amazon S3": This is the correct answer because Amazon S3 is widely used for storing large datasets that are accessed by machine learning models, including those in Amazon Bedrock.

* Option B: "Amazon Elastic Block Store (Amazon EBS)" is incorrect because EBS is a block storage service for use with Amazon EC2, not for directly storing datasets for Amazon Bedrock.

* Option C: "Amazon Elastic File System (Amazon EFS)" is incorrect as it is primarily used for file storage with shared access by multiple instances.

* Option D: "AWS Snowcone" is incorrect because it is a physical device for offline data transfer, not suitable for directly providing data to Amazon Bedrock.

AWS AI Practitioner References:

* Storing and Managing Datasets on AWS for Machine Learning: AWS recommends using S3 for storing and managing datasets required for ML model training and validation.

NEW QUESTION # 277

Which component of Amazon Bedrock Studio can help secure the content that AI systems generate?

- A. Access controls
- B. Function calling
- C. **Guardrails**
- D. Knowledge bases

Answer: C

NEW QUESTION # 278

Which option is a use case for generative AI models?

- A. Enhancing database performance by using optimized indexing
- B. Improving network security by using intrusion detection systems
- C. **Creating photorealistic images from text descriptions for digital marketing**

- D. Analyzing financial data to forecast stock market trends

Answer: C

NEW QUESTION # 279

An education company wants to build a private tutor application. The application will give users the ability to enter text or provide a picture of a question. The application will respond with a written answer and an explanation of the written answer.

Which model type meets these requirements?

- A. Multimodal LLM
- B. Diffusion model
- C. Text-to-speech model
- D. Computer vision model

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

A multimodal large language model (LLM) can:

- * Accept both text and image inputs
- * Understand visual and textual context
- * Generate coherent written explanations

AWS generative AI guidance positions multimodal LLMs as the best choice for applications requiring cross-modal understanding and text generation.

Why the other options are incorrect:

- * Computer vision (A) does not generate text explanations.
- * Diffusion models (C) generate images.
- * Text-to-speech (D) converts text to audio.

AWS AI document references:

- * Multimodal Foundation Models on AWS
- * Building AI Tutors with Generative Models
- * Text and Image Understanding with LLMs

NEW QUESTION # 280

A company wants to build an ML application.

Select and order the correct steps from the following list to develop a well-architected ML workload. Each step should be selected one time. (Select and order FOUR.)

- * Deploy model
- * Develop model
- * Monitor model
- * Define business goal and frame ML problem

Answer:

Explanation:

Reference:

AWS AI Practitioner Learning Path: Module on Machine Learning Lifecycle Amazon SageMaker Developer Guide: Machine Learning Workflow (<https://docs.aws.amazon.com/sagemaker/latest/dg/how-it-works-mlconcepts.html>) AWS Well-Architected Framework: Machine Learning Lens (<https://docs.aws.amazon.com/wellarchitected/latest/machine-learning-lens/>)

NEW QUESTION # 281

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