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## Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Amazon AWS Certified AI Practitioner Sample Questions (Q153-Q158):

### NEW QUESTION # 153

A company has guidelines for data storage and deletion.

Which data governance strategy does this describe?

- A. Log storage
- B. **Data retention**
- C. Data de-identification
- D. Data quality standards

### Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

Data retention policies define:

- \* How long data is stored
- \* When data must be deleted
- \* How data lifecycle requirements are enforced

AWS data governance guidance identifies data retention as a core compliance and governance strategy.

Why the other options are incorrect:

- \* De-identification (A) removes personal identifiers.
- \* Data quality (B) focuses on accuracy and completeness.
- \* Log storage (D) is a technical logging mechanism.

AWS AI document references:

- \* AWS Data Governance Best Practices
- \* Managing Data Lifecycles
- \* Compliance and Retention Policies

### NEW QUESTION # 154

A company is using Amazon Bedrock Agents to build an application to automate business workflows.

- A. To invoke foundation models (FMs) to process visual, audio, and text inputs
- B. To enhance foundation models (FMs) with a prompting strategy
- C. To provide users with full control of querying external data sources and APIs
- D. **To evaluate user inputs and orchestrate actions for multiple tasks**

### Answer: D

### NEW QUESTION # 155

A company is building an ML model to analyze archived data

a. The company must perform inference on large datasets that are multiple GBs in size. The company does not need to access the model predictions immediately.

Which Amazon SageMaker inference option will meet these requirements?

- A. Asynchronous inference
- B. Real-time inference
- C. Serverless inference
- D. Batch transform

**Answer: D**

Explanation:

I'll continue with more questions shortly. Stay tuned!

### NEW QUESTION # 156

An accounting firm wants to implement a large language model (LLM) to automate document processing. The firm must proceed responsibly to avoid potential harms.

What should the firm do when developing and deploying the LLM? (Select TWO.)

- A. **Modify the training data to mitigate bias.**
- B. Adjust the temperature parameter of the model.
- C. Avoid overfitting on the training data.
- D. **Include fairness metrics for model evaluation.**
- E. Apply prompt engineering techniques.

**Answer: A,D**

Explanation:

To implement a large language model (LLM) responsibly, the firm should focus on fairness and mitigating bias, which are critical for ethical AI deployment.

A . Include Fairness Metrics for Model Evaluation:

Fairness metrics help ensure that the model's predictions are unbiased and do not unfairly discriminate against any group.

These metrics can measure disparities in model outcomes across different demographic groups, ensuring responsible AI practices.

C . Modify the Training Data to Mitigate Bias:

Adjusting training data to be more representative and balanced can help reduce bias in the model's predictions.

Mitigating bias at the data level ensures that the model learns from a diverse and fair dataset, reducing potential harms in deployment.

Why Other Options are Incorrect:

B . Adjust the temperature parameter of the model: Controls randomness in outputs but does not directly address fairness or bias.

D . Avoid overfitting on the training data: Important for model generalization but not directly related to responsible AI practices regarding fairness and bias.

E . Apply prompt engineering techniques: Useful for improving model outputs but not specifically for mitigating bias or ensuring fairness.

### NEW QUESTION # 157

A company wants to develop a solution that uses generative AI to create content for product advertisements, including sample images and slogans.

Select the correct model type from the following list for each action. Each model type should be selected one time. (Select THREE.)

\* Diffusion model

\* Object detection model

\* Transformer-based model

**Answer:**

Explanation:

Explanation:

Diffusion models are state-of-the-art generative models for creating high-quality, realistic images from textual prompts or other forms of conditioning. These are the foundational technology behind tools like Amazon Bedrock Titan Image Generator and other generative image models.

Reference: AWS Generative AI Overview, Diffusion Models Explained - AWS Blog Transformer-based models (such as GPT or Amazon Titan Text) are designed for generating and understanding natural language. These models can generate coherent, contextually relevant slogans based on product information.

Reference: AWS Generative AI on Bedrock, Transformers Explained - AWS

Object detection models are designed to identify and locate objects within images, which makes them suitable for verifying that specific brand elements (like logos or products) are correctly positioned in the generated content.

Reference: AWS Rekognition Object Detection, Object Detection Overview - AWS

## NEW QUESTION # 158

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