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### Amazon AIF-C01 Exam Syllabus Topics:

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

## Amazon AWS Certified AI Practitioner Sample Questions (Q183-Q188):

### NEW QUESTION # 183

An AI practitioner who has minimal ML knowledge wants to predict employee attrition without writing code. Which Amazon SageMaker feature meets this requirement?

- A. SageMaker Model Monitor
- B. SageMaker Clarify
- C. SageMaker Data Wrangler
- D. SageMaker Canvas

**Answer: D**

Explanation:

The correct answer is A because Amazon SageMaker Canvas is designed specifically for users with little or no machine learning or programming experience. It provides a visual interface to build ML models by simply uploading data, performing analysis, and generating predictions using a no-code environment.

From the AWS documentation:

"Amazon SageMaker Canvas enables business analysts and other users to generate accurate ML predictions using a visual, point-and-click interface without writing code or having prior ML experience." This feature allows the user to:

Import datasets (e.g., HR data)

Automatically explore the data

Select the prediction column (e.g., attrition)

Train the model

Generate and export predictions

Explanation of other options:

B). SageMaker Clarify is used to detect bias and explain ML predictions but not to build models or make predictions without code.

C). SageMaker Model Monitor monitors model quality in production but doesn't build or train models.

D). SageMaker Data Wrangler is used for data preprocessing and transformation but still requires some technical configuration.

Referenced AWS AI/ML Documents and Study Guides:

Amazon SageMaker Canvas Developer Guide

AWS Certified Machine Learning Specialty Study Guide - AutoML and No-Code Tools Section AWS Machine Learning Blog:

"Predict Employee Attrition with SageMaker Canvas"

### NEW QUESTION # 184

A design company is using a foundation model (FM) on Amazon Bedrock to generate images for various projects. The company wants to have control over how detailed or abstract each generated image appears.

Which model parameter should the company modify?

- A. Model checkpoint
- B. Token length
- C. Batch size
- **D. Generation step**

**Answer: D**

Explanation:

The correct answer is C because in image generation tasks using foundation models like Stable Diffusion on Amazon Bedrock, the number of generation steps directly influences the fidelity and level of detail of the generated image. Fewer steps can produce more abstract or less defined images, while more steps allow the model to refine details, resulting in higher realism.

From AWS documentation:

"In diffusion-based image generation models, the number of inference steps (generation steps) determines how refined the final image is. Lower steps produce faster but less detailed outputs. Increasing steps results in more detailed and higher-quality images."

Explanation of other options:

- A). Model checkpoint refers to saved versions of the model during training, not inference-time generation settings.
- B). Batch size affects training/inference throughput, not image detail.
- D). Token length is relevant for text models, not image generation.

Referenced AWS AI/ML Documents and Study Guides:

- \* Amazon Bedrock Documentation - Model Parameters for Image Generation
- \* Stable Diffusion on Amazon Bedrock - Developer Guide
- \* AWS ML Specialty Guide - Generative AI Configuration

### NEW QUESTION # 185

An AI practitioner is using an Amazon Bedrock base model to summarize session chats from the customer service department. The AI practitioner wants to store invocation logs to monitor model input and output data.

Which strategy should the AI practitioner use?

- A. Configure AWS CloudTrail as the logs destination for the model.
- **B. Enable invocation logging in Amazon Bedrock.**
- C. Configure AWS Audit Manager as the logs destination for the model.
- D. Configure model invocation logging in Amazon EventBridge.

**Answer: B**

Explanation:

Amazon Bedrock provides an option to enable invocation logging to capture and store the input and output data of the models used. This is essential for monitoring and auditing purposes, particularly when handling customer data.

\* Option B (Correct): "Enable invocation logging in Amazon Bedrock": This is the correct answer as it directly enables the logging of all model invocations, ensuring transparency and traceability.

\* Option A: "Configure AWS CloudTrail" is incorrect because CloudTrail logs API calls but does not provide specific logging for model inputs and outputs.

\* Option C: "Configure AWS Audit Manager" is incorrect as Audit Manager is used for compliance reporting, not specific invocation logging for AI models.

\* Option D: "Configure model invocation logging in Amazon EventBridge" is incorrect as EventBridge is for event-driven architectures, not specifically designed for logging AI model inputs and outputs.

AWS AI Practitioner References:

\* Amazon Bedrock Logging Capabilities: AWS emphasizes using built-in logging features in Bedrock to maintain data integrity and transparency in model operations.

### NEW QUESTION # 186

A financial company has offices in different countries worldwide. The company requires that all API calls between generative AI applications and foundation models (FM) must not travel across the public internet.

Which AWS service should the company use?

- **A. AWS PrivateLink**
- B. Amazon Q
- C. AWS CloudTrail
- D. Amazon CloudFront

**Answer: A**

Explanation:

AWS PrivateLink provides private connectivity between VPCs, AWS services, and on-premises networks, ensuring traffic does not traverse the public internet.

A is correct:

"AWS PrivateLink provides private connectivity to services across VPCs, keeping API traffic off the public internet." (Reference: AWS PrivateLink Overview) B (Amazon Q) is a generative AI assistant, not a network security/control tool.

C (CloudFront) is a CDN, not for private API calls.

D (CloudTrail) is for logging and monitoring, not secure connectivity.

#### NEW QUESTION # 187

A hospital developed an AI system to provide personalized treatment recommendations for patients. The AI system must provide the rationale behind the recommendations and make the insights accessible to doctors and patients.

Which human-centered design principle does this scenario present?

- A. Data governance
- **B. Explainability**
- C. Privacy and security
- D. Fairness

**Answer: B**

Explanation:

Explainability refers to the ability of an AI system to make its decision-making process clear and understandable to humans.

A is correct:

"Explainability is crucial for human-centered AI, especially in healthcare, to ensure that doctors and patients understand the rationale behind AI-driven recommendations." (Reference: AWS Responsible AI) B relates to protecting data, not explanations.

C is about treating groups equally.

D is about managing data lifecycle, not providing rationales.

#### NEW QUESTION # 188

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