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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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 5	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q218-Q223):

NEW QUESTION # 218
A medical company is customizing a foundation model (FM) for diagnostic purposes. The company needs the model to be transparent and explainable to meet regulatory requirements.
Which solution will meet these requirements?

- A. Gather more data. Use Amazon Rekognition to add custom labels to the data.
- B. Configure security and compliance by using Amazon Inspector.
- C. Encrypt and secure training data by using Amazon Macie.
- D. Generate simple metrics, reports, and examples by using Amazon SageMaker Clarify.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact AWS AI documents:
Amazon SageMaker Clarify provides tools for:
* Model explainability
* Bias detection
* Transparency through metrics, reports, and explanations
For regulated industries such as healthcare, AWS recommends Clarify to:
* Explain model predictions
* Demonstrate fairness and accountability
* Support regulatory and ethical requirements
Why the other options are incorrect:
* Inspector (A) focuses on security vulnerabilities.
* Macie (C) focuses on data security and privacy.
* Rekognition (D) is for image labeling, not explainability.
AWS AI document references:
* Amazon SageMaker Clarify Documentation
* Responsible AI on AWS
* Explainable AI for Regulated Industries

NEW QUESTION # 219
A company wants to fine-tune a foundation model (FM) for a specific use case. The company needs to deploy the FM on Amazon Bedrock for internal use.
Which solution will meet these requirements?

- A. Use Amazon Personalize to customize the FM with custom data.
- B. Run responses that have been generated by a pre-trained FM through Amazon Bedrock Guardrails to create the custom FM.
- C. Use conversational builder for Amazon Bedrock Agents to create the custom model.
- D. Use Amazon SageMaker AI to customize the FM. Then, import the trained model into Amazon Bedrock.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact AWS AI documents:
Amazon Bedrock supports importing custom foundation models that have been trained or fine-tuned outside of Bedrock, including models customized using Amazon SageMaker AI.
Amazon SageMaker AI provides:
Full control over model training and fine-tuning
Ability to train models using approved internal datasets

Advanced customization beyond prompt-based techniques
After customization in SageMaker, the trained model can be imported into Amazon Bedrock for managed, scalable inference and internal deployment.
Why the other options are incorrect:
A (Guardrails) enforce safety, compliance, and output controls; they do not create or fine-tune models.
B (Amazon Personalize) is a recommendation service, not a foundation model customization tool.
C (Agents) orchestrate tasks and tool usage but do not modify or fine-tune model weights.
AWS AI document references:
Amazon Bedrock Documentation - section on Custom model import
Amazon SageMaker AI Overview - section on model training and fine-tuning Foundation Models on AWS - customization approaches

NEW QUESTION # 220
A large retail bank wants to develop an ML system to help the risk management team decide on loan allocations for different demographics.
What must the bank do to develop an unbiased ML model?

- A. Reduce the size of the training dataset.
- B. Ensure that the ML model predictions are consistent with historical results.
- C. Measure class imbalance on the training dataset. Adapt the training process accordingly.
- D. Create a different ML model for each demographic group.

Answer: C

Explanation:
Class imbalance in a training dataset can cause ML models to favor overrepresented groups, leading to biased predictions. The AWS AI Practitioner guide and SageMaker Clarify documentation emphasize the need to identify and mitigate class imbalance to ensure fairness and unbiased model outcomes.
D is correct: By measuring class imbalance and adapting the training process (e.g., through oversampling, undersampling, or using class weights), organizations can improve fairness and reduce bias across demographic groups.
A (reducing data size) could worsen bias by removing potentially useful diverse data.
B (consistency with historical results) might reinforce existing biases.
C (separate models) is not scalable and can introduce other fairness issues.
"To reduce bias, examine class imbalance in your training data and use techniques to ensure all groups are fairly represented." (Reference: AWS SageMaker Clarify: Mitigating Bias, AWS Responsible AI)
"To reduce bias, examine class imbalance in your training data and use techniques to ensure all groups are fairly represented." (Reference: AWS SageMaker Clarify: Mitigating Bias, AWS Responsible AI)

NEW QUESTION # 221
What is the benefit of fine-tuning a foundation model (FM)?

- A. Fine-tuning improves the performance of the FM on a specific task by further training the FM on new labeled data.
- B. Fine-tuning reduces the FM's size and complexity and enables slower inference.
- C. Fine-tuning keeps the FM's knowledge up to date by pre-training the FM on more recent data.
- D. Fine-tuning uses specific training data to retrain the FM from scratch to adapt to a specific use case.

Answer: A

Explanation:
Comprehensive and Detailed Explanation from AWS AI Documents:
Fine-tuning a foundation model means taking a pre-trained large model and continuing its training on domain-specific or task-specific data to specialize it for a particular use case. Fine-tuning does not retrain the FM from scratch (which would be costly and time-consuming). Instead, it improves model accuracy, relevance, and contextual adaptation for the intended application (e.g., legal, healthcare, customer support).
From AWS Docs:
"With Amazon Bedrock, you can fine-tune foundation models on your own data to specialize them for your unique use cases."
"Fine-tuning a foundation model adapts it to a specific task by training on smaller sets of labeled data relevant to the problem domain." Reference:
AWS Documentation - Fine-tuning foundation models in Amazon Bedrock

NEW QUESTION # 222
A company wants more customized responses to its generative AI models' prompts.
Select the correct customization methodology from the following list for each use case. Each use case should be selected one time. (Select THREE.)
* Continued pre-training
* Data augmentation
* Model fine-tuning

Answer:

Explanation:
Model fine-tuning adapts a pre-trained model to a specific domain or task using labeled data. This is the preferred approach when you want highly customized behavior for a particular application or subject area.
(Reference: Amazon Bedrock Fine-Tuning)
Data augmentation is used to artificially increase the size of a labeled dataset, usually by transforming or generating variations of the original data. This helps improve model generalization when labeled data is limited.
(Reference: AWS Data Preparation Techniques, AWS AI Practitioner Guide) Continued pre-training (also called domain-adaptive pre-training) further trains a foundation model on large amounts of unlabeled data from a specific domain, improving the model's language understanding or generation for that domain.
(Reference: Amazon Bedrock Customization Options)

NEW QUESTION # 223
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