

Exam AIF-C01 Introduction - Real AIF-C01 Exam Dumps



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Amazon AIF-C01 Exam Syllabus Topics:

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

Amazon AWS Certified AI Practitioner Sample Questions (Q174-Q179):

NEW QUESTION # 174

How can companies use large language models (LLMs) securely on Amazon Bedrock?

- A. Enable Amazon Bedrock automatic model evaluation jobs.
- B. Enable AWS Audit Manager for automatic model evaluation jobs.
- C. Use Amazon CloudWatch Logs to make models explainable and to monitor for bias.
- **D. Design clear and specific prompts. Configure AWS Identity and Access Management (IAM) roles and policies by using least privilege access.**

Answer: D

NEW QUESTION # 175

A company needs to use Amazon SageMaker AI for model training and inference. The company must comply with regulatory requirements to run SageMaker jobs in an isolated environment without internet access.

Which solution will meet these requirements?

- A. Associate appropriate AWS Identity and Access Management (IAM) roles with the SageMaker jobs.
- B. Run SageMaker training and inference by using SageMaker Experiments.
- **C. Run SageMaker training and inference by using network isolation.**
- D. Encrypt the data at rest by using encryption for SageMaker geospatial capabilities.

Answer: C

Explanation:

Network isolation is a key security feature for SageMaker. It ensures that training and inference jobs run in a VPC and are not accessible from the internet. Per the official SageMaker documentation:

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Network isolation is a key security feature for SageMaker. It ensures that training and inference jobs run in a VPC and are not accessible from the internet. Per the official SageMaker documentation:

"When you enable network isolation, your model can't make any outbound network calls. This is useful for security and regulatory compliance when working with sensitive data."

NEW QUESTION # 176

A company wants to keep its foundation model (FM) relevant by using the most recent data. The company wants to implement a model training strategy that includes regular updates to the FM.

Which solution meets these requirements?

- A. Batch learning
- B. Latent training
- **C. Continuous pre-training**
- D. Static training

Answer: C

Explanation:

To keep a foundation model (FM) relevant with the most recent data, the company needs a training strategy that supports regular updates. Continuous pre-training involves periodically updating a pre-trained model with new data to improve its performance and relevance over time, making it the best fit for this requirement.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Continuous pre-training is a strategy where a pre-trained model is periodically updated with new data to keep it relevant and improve its performance. This approach is commonly used for foundation models to ensure they adapt to new trends and information." (Source: AWS AI Practitioner Learning Path, Module on Model Training Strategies) Detailed Explanation:

* Option A: Batch learning Batch learning involves training a model on a fixed dataset in batches, but it does not inherently support regular updates with new data to keep the model relevant over time.

* Option B: Continuous pre-training This is the correct answer. Continuous pre-training updates the FM with recent data, ensuring it stays relevant by adapting to new trends and information.

* Option C: Static training Static training implies training a model once on a fixed dataset without updates, which does not meet the requirement for regular updates.

* Option D: Latent training Latent training is not a standard term in AWS or ML contexts. It may refer to latent space in models like VAEs, but it is not a strategy for regular model updates.

References:

AWS AI Practitioner Learning Path: Module on Model Training Strategies

Amazon Bedrock User Guide: Model Customization and Updates (<https://docs.aws.amazon.com/bedrock/latest/userguide/custom-models.html>)

AWS Documentation: Machine Learning Training Strategies (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 177

A company has built a chatbot that can respond to natural language questions with images. The company wants to ensure that the chatbot does not return inappropriate or unwanted images.

Which solution will meet these requirements?

- A. Retrain the model with a general public dataset.
- B. Automate user feedback integration.
- C. Perform model validation.
- **D. Implement moderation APIs.**

Answer: D

NEW QUESTION # 178

An ecommerce company is deploying a chatbot. The chatbot will give users the ability to ask questions about the company's products and receive details on users' orders. The company must implement safeguards for the chatbot to filter harmful content from the input prompts and chatbot responses.

Which AWS feature or resource meets these requirements?

- **A. Amazon Bedrock Guardrails**
- B. Amazon Bedrock Agents
- C. Amazon Bedrock custom models
- D. Amazon Bedrock inference APIs

Answer: A

Explanation:

The ecommerce company is deploying a chatbot that needs safeguards to filter harmful content from input prompts and responses. Amazon Bedrock Guardrails provide mechanisms to ensure responsible AI usage by filtering harmful content, such as hate speech, violence, or misinformation, making it the appropriate feature for this requirement.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Amazon Bedrock Guardrails enable developers to implement safeguards for generative AI applications, such as chatbots, by filtering harmful content in input prompts and model responses. Guardrails include content filters, word filters, and denied topics to ensure safe and responsible outputs." (Source: AWS Bedrock User Guide, Guardrails for Responsible AI) Detailed Explanation:

* Option A: Amazon Bedrock Guardrails This is the correct answer. Amazon Bedrock Guardrails are specifically designed to filter harmful content from chatbot inputs and responses, ensuring safe interactions for users.

* Option B: Amazon Bedrock Agents Amazon Bedrock Agents are used to automate tasks and integrate with external tools, not to filter harmful content. This option does not meet the requirement.

* Option C: Amazon Bedrock inference APIs Amazon Bedrock inference APIs allow users to invoke foundation models for generating responses, but they do not provide built-in content filtering mechanisms.

* Option D: Amazon Bedrock custom models Custom models on Amazon Bedrock allow users to fine-tune models, but they do not inherently include safeguards for filtering harmful content unless explicitly implemented.

References:

AWS Bedrock User Guide: Guardrails for Responsible AI (<https://docs.aws.amazon.com/bedrock/latest/userguide/guardrails.html>)

AWS AI Practitioner Learning Path: Module on Responsible AI and Model Safety Amazon Bedrock Developer Guide: Building Safe AI Applications (<https://aws.amazon.com/bedrock/>)

NEW QUESTION # 179

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