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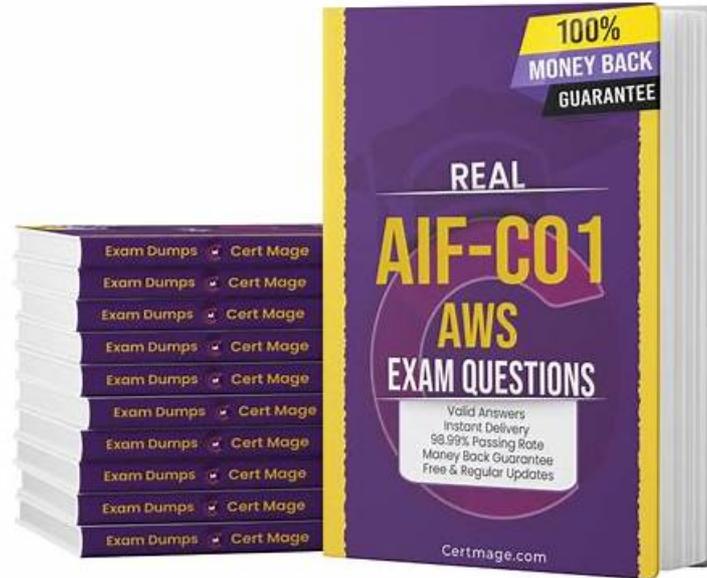

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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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	• 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 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	• 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.

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

NEW QUESTION # 183
A company is using a generative AI model to develop a digital assistant. The model's responses occasionally include undesirable and potentially harmful content. Select the correct Amazon Bedrock filter policy from the following list for each mitigation action. Each filter policy should be selected one time. (Select FOUR.)
* Content filters
* Contextual grounding check
* Denied topics
* Word filters

Answer:

Explanation:
Block input prompts or model responses that contain harmful content such as hate, insults, violence, or misconduct:Content filters
Avoid subjects related to illegal investment advice or legal advice:Denied topics Detect and block specific offensive terms:Word filters Detect and filter out information in the model's responses that is not grounded in the provided source information:Contextual grounding check The company is using a generative AI model on Amazon Bedrock and needs to mitigate undesirable and potentially harmful content in the model's responses. Amazon Bedrock provides several guardrail mechanisms, including content filters, denied topics, word filters, and contextual grounding checks, to ensure safe and accurate outputs. Each mitigation action in the hotspot aligns with a specific Bedrock filter policy, and each policy must be used exactly once.
Exact Extract from AWS AI Documents:
From the AWS Bedrock User Guide:
*"Amazon Bedrock guardrails provide mechanisms to control model outputs, including:
Content filters: Block harmful content such as hate speech, violence, or misconduct.
Denied topics: Prevent the model from generating responses on specific subjects, such as illegal activities or advice.
Word filters: Detect and block specific offensive or inappropriate terms.
Contextual grounding check: Ensure responses are grounded in the provided source information, filtering out ungrounded or hallucinated content."*(Source: AWS Bedrock User Guide, Guardrails for Responsible AI) Detailed Explanation:
Block input prompts or model responses that contain harmful content such as hate, insults, violence, or misconduct: Content filtersContent filters in Amazon Bedrock are designed to detect and block harmful content, such as hate speech, insults, violence, or misconduct, ensuring the model's outputs are safe and appropriate. This matches the first mitigation action.
Avoid subjects related to illegal investment advice or legal advice: Denied topicsDenied topics allow users to specify subjects the model should avoid, such as illegal investment advice or legal advice, which could have regulatory implications. This policy aligns with the second mitigation action.

Detect and block specific offensive terms: Word filtersWord filters enable the detection and blocking of specific offensive or inappropriate terms defined by the user, making them ideal for this mitigation action focused on specific terms.

Detect and filter out information in the model's responses that is not grounded in the provided source information: Contextual grounding checkThe contextual grounding check ensures that the model's responses are based on the provided source information, filtering out ungrounded or hallucinated content. This matches the fourth mitigation action.

Hotspot Selection Analysis:

The hotspot lists four mitigation actions, each with the same dropdown options: "Select...," "Content filters," "Contextual grounding check," "Denied topics," and "Word filters." The correct selections are:

First action: Content filters

Second action: Denied topics

Third action: Word filters

Fourth action: Contextual grounding check

Each filter policy is used exactly once, as required, and aligns with Amazon Bedrock's guardrail capabilities.

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: Configuring Guardrails (https://aws.amazon.com/bedrock/)

NEW QUESTION # 184

Which option is a characteristic of AI governance frameworks for building trust and deploying human-centered AI technologies?

- A. Expanding initiatives across business units to create long-term business value
- B. Ensuring alignment with business standards, revenue goals, and stakeholder expectations
- C. Overcoming challenges to drive business transformation and growth
- D. Developing policies and guidelines for data, transparency, responsible AI, and compliance\

Answer: D

Explanation:

AI governance frameworks aim to build trust and deploy human-centered AI technologies by establishing guidelines and policies for data usage, transparency, responsible AI practices, and compliance with regulations. This ensures ethical and accountable AI development and deployment.

Exact Extract from AWS AI Documents:

From the AWS Documentation on Responsible AI:

"AI governance frameworks establish trust in AI technologies by developing policies and guidelines for data management, transparency, responsible AI practices, and compliance with regulatory requirements, ensuring human-centered and ethical AI deployment." (Source: AWS Documentation, Responsible AI Governance) Detailed Option A: Expanding initiatives across business units to create long-term business valueWhile expanding initiatives can drive value, it is not a core characteristic of AI governance frameworks focused on trust and human-centered AI.

Option B: Ensuring alignment with business standards, revenue goals, and stakeholder expectationsAlignment with business goals is important but not specific to AI governance frameworks for building trust and ethical AI deployment.

Option C: Overcoming challenges to drive business transformation and growthOvercoming challenges is a general business goal, not a defining characteristic of AI governance frameworks.

Option D: Developing policies and guidelines for data, transparency, responsible AI, and complianceThis is the correct answer. This option directly describes the core components of AI governance frameworks that ensure trust and ethical AI deployment.

Reference:

AWS Documentation: Responsible AI Governance (https://aws.amazon.com/machine-learning/responsible-ai/) AWS AI Practitioner Learning Path: Module on AI Governance AWS Well-Architected Framework: Machine Learning Lens (https://docs.aws.amazon.com/wellarchitected/latest/machine-learning-lens/)

NEW QUESTION # 185

A company is using Amazon SageMaker Studio notebooks to build and train ML models. The company stores the data in an Amazon S3 bucket. The company needs to manage the flow of data from Amazon S3 to SageMaker Studio notebooks.

Which solution will meet this requirement?

- A. Use Amazon Macie to monitor SageMaker Studio.
- B. Use Amazon Inspector to monitor SageMaker Studio.

- C. Configure SageMaker to use a VPC with an S3 endpoint.
- D. Configure SageMaker to use S3 Glacier Deep Archive.

Answer: C

NEW QUESTION # 186
An ecommerce company wants to improve search engine recommendations by customizing the results for each user of the company's ecommerce platform. Which AWS service meets these requirements?

- A. Amazon Rekognition
- B. Amazon Kendra
- C. Amazon Personalize
- D. Amazon Transcribe

Answer: C

Explanation:
The ecommerce company wants to improve search engine recommendations by customizing results for each user. Amazon Personalize is a machine learning service that enables personalized recommendations, tailoring search results or product suggestions based on individual user behavior and preferences, making it the best fit for this requirement.
Exact Extract from AWS AI Documents:
From the Amazon Personalize Developer Guide:
"Amazon Personalize enables developers to build applications with personalized recommendations, such as customized search results or product suggestions, by analyzing user behavior and preferences to deliver tailored experiences." (Source: Amazon Personalize Developer Guide, Introduction to Amazon Personalize) Detailed Option A: Amazon PersonalizeThis is the correct answer. Amazon Personalize specializes in creating personalized recommendations, ideal for customizing search results for each user on an ecommerce platform.
Option B: Amazon KendraAmazon Kendra is an intelligent search service for enterprise data, focusing on retrieving relevant documents or answers, not on personalizing search results for individual users.
Option C: Amazon RekognitionAmazon Rekognition is for image and video analysis, such as object detection or facial recognition, and is unrelated to search engine recommendations.
Option D: Amazon TranscribeAmazon Transcribe converts speech to text, which is not relevant for improving search engine recommendations.
Reference:
Amazon Personalize Developer Guide: Introduction to Amazon Personalize
(https://docs.aws.amazon.com/personalize/latest/dg/what-is-personalize.html) AWS AI Practitioner Learning Path: Module on Recommendation Systems AWS Documentation: Personalization with Amazon Personalize (https://aws.amazon.com/personalize/)

NEW QUESTION # 187
A company wants to build an ML model by using Amazon SageMaker. The company needs to share and manage variables for model development across multiple teams.
Which SageMaker feature meets these requirements?

- A. Amazon SageMaker Data Wrangler
- B. Amazon SageMaker Clarify
- C. Amazon SageMaker Model Cards
- D. Amazon SageMaker Feature Store

Answer: D

Explanation:
Amazon SageMaker Feature Store is the correct solution for sharing and managing variables (features) across multiple teams during model development.
* Amazon SageMaker Feature Store:
* A fully managed repository for storing, sharing, and managing machine learning features across different teams and models.
* It enables collaboration and reuse of features, ensuring consistent data usage and reducing redundancy.
* Why Option A is Correct:
* Centralized Feature Management: Provides a central repository for managing features, making it easier to share them across teams.

* Collaboration and Reusability: Improves efficiency by allowing teams to reuse existing features instead of creating them from scratch.
* Why Other Options are Incorrect:
* B. SageMaker Data Wrangler: Helps with data preparation and analysis but does not provide a centralized feature store.
* C. SageMaker Clarify: Used for bias detection and explainability, not for managing variables across teams.
* D. SageMaker Model Cards: Provide model documentation, not feature management.

NEW QUESTION # 188

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