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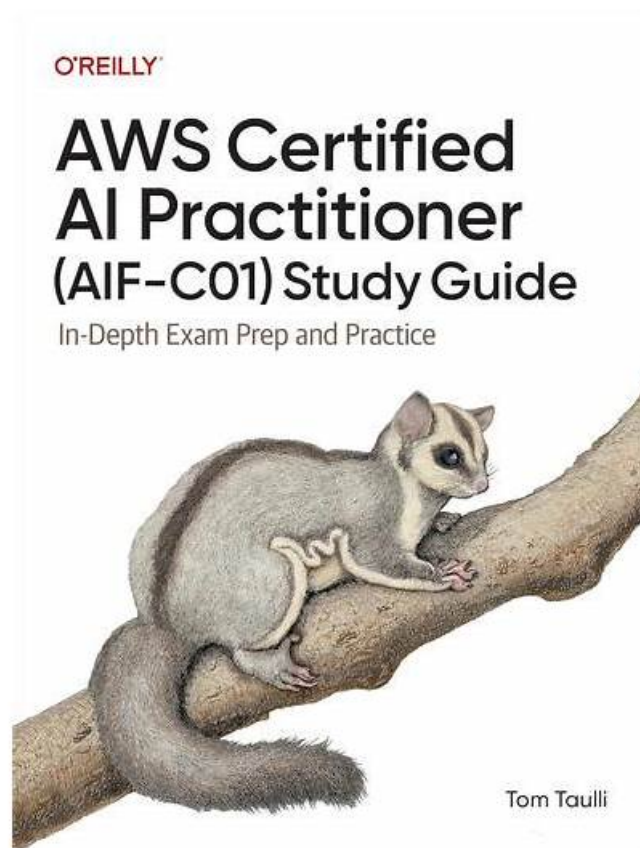
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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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	• 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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The Amazon AIF-C01 practice questions come with three easy-to-use and install formats. The certification for the Amazon AIF-C01 exam is a valuable, well-recognized professional credential. You can develop your skills and become a recognized specialist with the AWS Certified AI Practitioner AIF-C01 Certification in addition to learning about new technology requirements.

Amazon AWS Certified AI Practitioner Sample Questions (Q44-Q49):

NEW QUESTION # 44
A financial company is using ML to help with some of the company's tasks.
Which option is a use of generative AI models?

- A. Classifying customers based on product usage
- B. Segmenting customers based on type of investments
- C. Summarizing customer complaints
- D. Forecasting revenue for certain products

Answer: C

Explanation:
Generative AI models (such as large language models) are designed to generate new content, such as text, summaries, images, and more. Summarizing text-like customer complaints-is a classic application of generative AI.
A is correct:
"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text."
(Reference: AWS Generative AI Use Cases)
"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text."
(Reference: AWS Generative AI Use Cases) B and C are standard ML classification/segmentation tasks.
D is a regression/prediction task, not generative.

NEW QUESTION # 45
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:
□
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 # 46
An AI practitioner has a database of animal photos. The AI practitioner wants to automatically identify and categorize the animals in the photos without manual human effort.
Which strategy meets these requirements?

- A. Anomaly detection
- B. Inpainting
- C. Object detection
- D. Named entity recognition

Answer: C

Explanation:
Object detection is the correct strategy for automatically identifying and categorizing animals in photos.
* Object Detection:
* A computer vision technique that identifies and locates objects within an image and assigns them to predefined categories.
* Ideal for tasks such as identifying animals in photos, where the goal is to detect specific objects (animals) and categorize them accordingly.
* Why Option A is Correct:
* Automatic Identification: Object detection models can automatically identify different types of animals in the images without manual intervention.
* Categorization Capability: Assigns labels to detected objects, fulfilling the requirement for categorizing animals.

* Why Other Options are Incorrect:
* B. Anomaly detection: Identifies outliers or unusual patterns, not specific objects in images.
* C. Named entity recognition: Used in NLP to identify entities in text, not for image processing.
* D. Inpainting: Used for filling in missing parts of images, not for detecting or categorizing objects.

NEW QUESTION # 47

Which option is a benefit of ongoing pre-training when fine-tuning a foundation model (FM)?

- A. Optimizes model inference time
- B. Decreases the training time requirement
- C. Improves model performance over time
- D. Helps decrease the model's complexity

Answer: C

NEW QUESTION # 48

A company wants to classify human genes into 20 categories based on gene characteristics. The company needs an ML algorithm to document how the inner mechanism of the model affects the output.
Which ML algorithm meets these requirements?

- A. Decision trees
- B. Linear regression
- C. Logistic regression
- D. Neural networks

Answer: A

Explanation:
Decision trees are an interpretable machine learning algorithm that clearly documents the decision-making process by showing how each input feature affects the output. This transparency is particularly useful when explaining how the model arrives at a certain decision, making it suitable for classifying genes into categories.
* Option A (Correct): "Decision trees": This is the correct answer because decision trees provide a clear and interpretable representation of how input features influence the model's output, making it ideal for understanding the inner mechanisms affecting predictions.
* Option B: "Linear regression" is incorrect because it is used for regression tasks, not classification.
* Option C: "Logistic regression" is incorrect as it does not provide the same level of interpretability in documenting decision-making processes.
* Option D: "Neural networks" is incorrect because they are often considered "black boxes" and do not easily explain how they arrive at their outputs.
AWS AI Practitioner References:
* Interpretable Machine Learning Models on AWS: AWS supports using interpretable models, such as decision trees, for tasks that require clear documentation of how input data affects output decisions.

NEW QUESTION # 49

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