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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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 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"> 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q173-Q178):

NEW QUESTION # 173

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

Answer: C

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 # 174

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:

□ 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 # 175

An ecommerce company is using a chatbot to automate the customer order submission process. The chatbot is powered by AI and is available to customers directly from the company's website 24 hours a day, 7 days a week.

Which option is an AI system input vulnerability that the company needs to resolve before the chatbot is made available?

- A. Data leakage
- B. Concept drift
- C. Prompt injection
- D. Large language model (LLM) hallucinations

Answer: C

Explanation:

The ecommerce company's chatbot, powered by AI, automates customer order submissions and is accessible 24/7 via the website. Prompt injection is an AI system input vulnerability where malicious users craft inputs to manipulate the chatbot's behavior, such as bypassing safeguards or accessing unauthorized information.

This vulnerability must be resolved before the chatbot is made available to ensure security.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt injection is a vulnerability in AI systems, particularly chatbots, where malicious inputs can manipulate the model's behavior, potentially leading to unauthorized actions or harmful outputs.

Implementing guardrails and input validation can mitigate this risk."

(Source: AWS Bedrock User Guide, Security Best Practices)

Detailed Explanation:

* Option A: Data leakage Data leakage refers to the unintended exposure of sensitive data during model training or inference, not an input vulnerability affecting a chatbot's operation.

* Option B: Prompt injection This is the correct answer. Prompt injection is a critical input vulnerability for chatbots, where malicious prompts can exploit the AI to produce harmful or unauthorized responses, a risk that must be addressed before launch.

* Option C: Large language model (LLM) hallucinations LLM hallucinations refer to the model generating incorrect or ungrounded responses, which is an output issue, not an input vulnerability.

* Option D: Concept drift Concept drift occurs when the data distribution changes over time, affecting model performance. It is not an input vulnerability but a long-term performance issue.

References:

AWS Bedrock User Guide: Security Best Practices (<https://docs.aws.amazon.com/bedrock/latest/userguide/security.html>)

AWS AI Practitioner Learning Path: Module on AI Security and Vulnerabilities AWS Documentation: Securing AI Systems (<https://aws.amazon.com/security/>)

NEW QUESTION # 176

A company wants to create an application to summarize meetings by using meeting audio recordings.

Select and order the correct steps from the following list to create the application. Each step should be selected one time or not at all. (Select and order THREE.)

- * Convert meeting audio recordings to meeting text files by using Amazon Polly.
- * Convert meeting audio recordings to meeting text files by using Amazon Transcribe.
- * Store meeting audio recordings in an Amazon S3 bucket.
- * Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.
- * Summarize meeting text files by using Amazon Bedrock.
- * Summarize meeting text files by using Amazon Lex.

Answer:

Explanation:

Reference:

Amazon Transcribe Developer Guide: Introduction to Amazon Transcribe (<https://docs.aws.amazon.com/transcribe/latest/dg/what-is.html>) AWS Bedrock User Guide: Text Generation and Summarization

(<https://docs.aws.amazon.com/bedrock/latest/userguide/what-is-bedrock.html>) AWS AI Practitioner Learning Path: Module on Speech-to-Text and Generative AI Amazon S3 User Guide: Storing Data for Processing

(<https://docs.aws.amazon.com/AmazonS3/latest/userguide/Welcome.html>)

NEW QUESTION # 177

A company uses foundation models (FMs) to automate daily tasks. An AI practitioner is creating system instructions that include context relevant to the tasks. The AI practitioner wants to save and reuse the instructions in daily interactions with FMs in Amazon Bedrock.

Which Amazon Bedrock solution will meet these requirements?

- A. Guardrails
- **B. Prompt management**
- C. Playgrounds
- D. Knowledge Bases

Answer: B

Explanation:

Comprehensive and Detailed Explanation (AWS AI documents):

AWS Amazon Bedrock Prompt Management is designed to allow practitioners to create, version, store, and reuse prompts and system instructions when working with foundation models. It enables consistent reuse of contextual instructions across repeated interactions and applications.

Why the other options are incorrect:

- * Knowledge Bases store and retrieve external data, not reusable system instructions.
- * Guardrails enforce safety and policy controls, not prompt reuse.
- * Playgrounds are for experimentation and testing, not long-term prompt storage.

AWS AI Study Guide References:

- * Amazon Bedrock prompt management capabilities
- * AWS best practices for prompt engineering and reuse

NEW QUESTION # 178

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