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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">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	<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 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q132-Q137):

NEW QUESTION # 132

A company wants to use generative AI to increase developer productivity and software development. The company wants to use Amazon Q Developer.

What can Amazon Q Developer do to help the company meet these requirements?

- A. **Enable voice commands for coding and providing natural language search.**
- B. Run an application without provisioning or managing servers.
- C. Create software snippets, reference tracking, and open-source license tracking
- D. Convert audio files to text documents by using ML models.

Answer: A

Explanation:

Amazon Q Developer is a tool designed to assist developers in increasing productivity by generating code snippets, managing reference tracking, and handling open-source license tracking. These features help developers by automating parts of the software development process.

Option A (Correct): "Create software snippets, reference tracking, and open-source license tracking": This is the correct answer because these are key features that help developers streamline and automate tasks, thus improving productivity.

Option B: "Run an application without provisioning or managing servers" is incorrect as it refers to AWS Lambda or AWS Fargate, not Amazon Q Developer.

Option C: "Enable voice commands for coding and providing natural language search" is incorrect because this is not a function of Amazon Q Developer.

Option D: "Convert audio files to text documents by using ML models" is incorrect as this refers to Amazon Transcribe, not Amazon Q Developer.

AWS AI Practitioner References:

Amazon Q Developer Features: AWS documentation outlines how Amazon Q Developer supports developers by offering features that reduce manual effort and improve efficiency.

NEW QUESTION # 133

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

Answer: B

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 # 134

A company is monitoring a predictive model by using Amazon SageMaker Model Monitor. The company notices data drift beyond a defined threshold. The company wants to mitigate a potentially adverse impact on the predictive model.

- A. Restart the SageMaker AI endpoint.
- B. Set up experiments tracking.
- C. Adjust the monitoring sensitivity.
- D. **Re-train the model with fresh data.**

Answer: D

Explanation:

The correct answer is C - Re-train the model with fresh data. AWS SageMaker Model Monitor is designed to detect data drift, feature drift, and model quality degradation in real-time. When drift exceeds a set threshold, AWS recommends initiating a retraining workflow with updated data to restore model accuracy. According to AWS documentation, data drift indicates that the distribution of incoming data has changed significantly from the original training dataset-often due to new user behaviors, market changes, or seasonal patterns.

Restarting the endpoint (A) does not address degraded model performance. Adjusting sensitivity (B) suppresses the alert but does not fix the underlying issue. Experiments tracking (D) is helpful for monitoring model versions but is not corrective. Retraining ensures the model adapts to new data patterns and continues to perform reliably, which is the AWS-endorsed response to drift detection alerts.

Referenced AWS Documentation:

* Amazon SageMaker Model Monitor - Detecting Drift

* AWS ML Ops Best Practices - Continuous Retraining

NEW QUESTION # 135

A company wants to use AI to protect its application from threats. The AI solution needs to check if an IP address is from a suspicious source.

- A. **Develop an anomaly detection system**
- B. Build a speech recognition system
- C. Create a natural language processing (NLP) named entity recognition system
- D. Create a fraud forecasting system

Answer: A

Explanation:

* Anomaly detection identifies unusual behavior (such as suspicious IP traffic) compared to normal baselines.

* Speech recognition (A) is irrelevant.

* NER in NLP (B) extracts entities from text, not detect malicious IPs.

* Fraud forecasting (D) predicts fraudulent transactions but not directly suspicious IP activity.

NEW QUESTION # 136

Which component of Amazon Bedrock Studio can help secure the content that AI systems generate?

- A. Function calling
- B. Access controls
- C. **Guardrails**
- D. Knowledge bases

Answer: C

NEW QUESTION # 137

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