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## Updated Amazon AIF-C01 Free Updates offer you accurate Exam Price | AWS Certified AI Practitioner

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### Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Amazon AWS Certified AI Practitioner Sample Questions (Q315-Q320):

### NEW QUESTION # 315

A company needs to build its own large language model (LLM) based on only the company's private data. The company is concerned about the environmental effect of the training process.

Which Amazon EC2 instance type has the LEAST environmental effect when training LLMs?

- A. Amazon EC2 P series
- B. Amazon EC2 C series
- **C. Amazon EC2 Trn series**
- D. Amazon EC2 G series

**Answer: C**

### NEW QUESTION # 316

A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers.

Which actions should the company take to meet these requirements? (Select TWO.)

- A. Use the Recall-Oriented Understudy for Generating Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
- **B. Detect imbalances or disparities in the data.**
- C. Ensure that the model runs frequently.
- D. Ensure that the model's inference time is within the accepted limits.
- **E. Evaluate the model's behavior so that the company can provide transparency to stakeholders.**

**Answer: B,E**

Explanation:

To build and use an AI model responsibly, especially in sensitive applications like loan approvals, it's crucial to address potential biases and ensure transparency:

\* Detect imbalances or disparities in the data (Option A): Analyzing the training data for imbalances or disparities is essential. Imbalanced data can lead to models that are biased towards the majority class, potentially disadvantaging certain groups. By identifying and mitigating these imbalances, the company can reduce the risk of biased predictions.

\* Evaluate the model's behavior to provide transparency to stakeholders (Option C): Regularly assessing the model's outputs and decision-making processes allows the company to understand how decisions are made. This evaluation fosters transparency, enabling the company to explain model behavior to stakeholders and ensure that the model operates as intended without unintended biases.

Options B, D, and E, while relevant to model performance and evaluation, do not directly address the responsible use of AI concerning bias and transparency.

### NEW QUESTION # 317

A company is implementing the Amazon Titan foundation model (FM) by using Amazon Bedrock. The company needs to supplement the model by using relevant data from the company's private data sources.

Which solution will meet this requirement?

- A. Create an Amazon Bedrock knowledge base
- B. Choose a lower temperature value
- C. Enable model invocation logging
- D. Use a different FM

**Answer: A**

Explanation:

Creating an Amazon Bedrock knowledge base allows the integration of external or private data sources with a foundation model (FM) like Amazon Titan. This integration helps supplement the model with relevant data from the company's private data sources to enhance its responses.

Option C (Correct): "Create an Amazon Bedrock knowledge base": This is the correct answer as it enables the company to incorporate private data into the FM to improve its effectiveness.

Option A: "Use a different FM" is incorrect because it does not address the need to supplement the current model with private data.

Option B: "Choose a lower temperature value" is incorrect as it affects output randomness, not the integration of private data.

Option D: "Enable model invocation logging" is incorrect because logging does not help in supplementing the model with additional data.

AWS AI Practitioner Reference:

Amazon Bedrock and Knowledge Integration: AWS explains how creating a knowledge base allows Amazon Bedrock to use external data sources to improve the FM's relevance and accuracy.

**NEW QUESTION # 318**

Which AWS service makes foundation models (FMs) available to help users build and scale generative AI applications?

- A. Amazon Comprehend
- B. Amazon Bedrock
- C. Amazon Q Developer
- D. Amazon Kendra

**Answer: B**

Explanation:

The correct answer is Amazon Bedrock, AWS's fully managed service for building and scaling generative AI applications using foundation models (FMs). Bedrock gives developers access to models from leading providers such as Anthropic (Claude), Meta (Llama), Mistral, Cohere, and Amazon Titan. Users can invoke these models via API without managing infrastructure or model training. According to AWS documentation, Bedrock supports tasks such as text generation, summarization, question answering, image generation, and RAG workflows with minimal setup. It supports both on-demand and provisioned throughput modes and integrates with features like Guardrails, Knowledge Bases, and Agents for secure, enterprise-grade applications. Amazon Q Developer is a generative AI tool for developers, but it doesn't host or scale models.

Amazon Kendra is an intelligent search engine, and Amazon Comprehend is used for NLP tasks like entity extraction-not foundation model access.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Foundation Models and Use Cases

AWS Certified ML Specialty Guide - Generative AI on AWS

**NEW QUESTION # 319**

A company is developing a new model to predict the prices of specific items. The model performed well on the training dataset. When the company deployed the model to production, the model's performance decreased significantly.

What should the company do to mitigate this problem?

- A. Reduce the volume of data that is used in training.
- B. Add hyperparameters to the model.
- C. Increase the model training time.
- D. Increase the volume of data that is used in training.

**Answer: D**

## NEW QUESTION # 320

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