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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 5	• 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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q118-Q123):

NEW QUESTION # 118
A company wants to use language models to create an application for inference on edge devices. The inference must have the lowest latency possible.
Which solution will meet these requirements?

- A. Deploy optimized small language models (SLMs) on edge devices.
- B. Deploy optimized large language models (LLMs) on edge devices.
- C. Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices.
- D. Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices.

Answer: A

Explanation:
To achieve the lowest latency possible for inference on edge devices, deploying optimized small language models (SLMs) is the most effective solution. SLMs require fewer resources and have faster inference times, making them ideal for deployment on edge devices where processing power and memory are limited.
* Option A (Correct): "Deploy optimized small language models (SLMs) on edge devices": This is the correct answer because SLMs provide fast inference with low latency, which is crucial for edge deployments.
* Option B: "Deploy optimized large language models (LLMs) on edge devices" is incorrect because LLMs are resource-intensive and may not perform well on edge devices due to their size and computational demands.
* Option C: "Incorporate a centralized small language model (SLM) API for asynchronous communication with edge devices" is incorrect because it introduces network latency due to the need for communication with a centralized server.
* Option D: "Incorporate a centralized large language model (LLM) API for asynchronous communication with edge devices" is incorrect for the same reason, with even greater latency due to the larger model size.
AWS AI Practitioner References:
* Optimizing AI Models for Edge Devices on AWS: AWS recommends using small, optimized models for edge deployments to ensure minimal latency and efficient performance.

NEW QUESTION # 119
A company has built an image classification model to predict plant diseases from photos of plant leaves. The company wants to evaluate how many images the model classified correctly.
Which evaluation metric should the company use to measure the model's performance?

- A. Accuracy
- B. Learning rate

- C. R-squared score
- D. Root mean squared error (RMSE)

Answer: A

Explanation:
Accuracy is the most appropriate metric to measure the performance of an image classification model. It indicates the percentage of correctly classified images out of the total number of images. In the context of classifying plant diseases from images, accuracy will help the company determine how well the model is performing by showing how many images were correctly classified.
Option B (Correct): "Accuracy": This is the correct answer because accuracy measures the proportion of correct predictions made by the model, which is suitable for evaluating the performance of a classification model.
Option A: "R-squared score" is incorrect as it is used for regression analysis, not classification tasks.
Option C: "Root mean squared error (RMSE)" is incorrect because it is also used for regression tasks to measure prediction errors, not for classification accuracy.
Option D: "Learning rate" is incorrect as it is a hyperparameter for training, not a performance metric.
AWS AI Practitioner Reference:
Evaluating Machine Learning Models on AWS: AWS documentation emphasizes the use of appropriate metrics, like accuracy, for classification tasks.

NEW QUESTION # 120
A company has documents that are missing some words because of a database error. The company wants to build an ML model that can suggest potential words to fill in the missing text.
Which type of model meets this requirement?

- A. BERT-based models
- B. Clustering models
- C. Prescriptive ML models
- D. Topic modeling

Answer: A

Explanation:
BERT-based models (Bidirectional Encoder Representations from Transformers) are suitable for tasks that involve understanding the context of words in a sentence and suggesting missing words. These models use bidirectional training, which considers the context from both directions (left and right of the missing word) to predict the appropriate word to fill in the gaps.
* BERT-based Models:
* BERT is a pre-trained transformer model designed for natural language understanding tasks, including text completion, where certain words are missing.
* It excels at understanding context and relationships between words in a sentence, making it ideal for suggesting potential words to fill in missing text.
* Why Option D is Correct:
* Contextual Understanding: BERT uses its bidirectional training to understand the context around missing words, making it highly accurate in suggesting suitable replacements.
* Text Completion Capability: BERT's architecture is explicitly designed for tasks like masked language modeling, where certain words in a text are masked (or missing), and the model predicts the missing words.
* Why Other Options are Incorrect:
* A. Topic modeling: Focuses on identifying topics in a text corpus, not on predicting missing words.
* B. Clustering models: Group similar data points together, which is not suitable for predicting missing text.
* C. Prescriptive ML models: Focus on providing recommendations based on data analysis, not on natural language processing tasks like filling in missing text.

NEW QUESTION # 121
A company has developed an ML model to predict real estate sale prices. The company wants to deploy the model to make predictions without managing servers or infrastructure.
Which solution meets these requirements?

- A. Deploy the model by using an Amazon SageMaker AI endpoint.
- B. Deploy the model by using Amazon CloudFront with an Amazon S3 integration.
- C. Deploy the model on an Amazon EC2 instance.

- D. Deploy the model on an Amazon Elastic Kubernetes Service (Amazon EKS) cluster.

Answer: A

Explanation:
Amazon SageMaker endpoints provide fully managed, serverless model deployment for real-time and batch predictions, allowing companies to deploy ML models without handling any servers or infrastructure management.
* D is correct: SageMaker endpoints let you deploy, scale, and monitor ML models with no infrastructure overhead.
* A and B require infrastructure management.
* C (CloudFront/S3) is not for model deployment, but for static content delivery.
"Amazon SageMaker endpoints allow you to deploy machine learning models for inference without the need to manage underlying infrastructure." (Reference: AWS SageMaker Model Deployment, AWS Certified AI Practitioner Study Guide)

NEW QUESTION # 122
A company uses a third-party model on Amazon Bedrock to analyze confidential documents. The company is concerned about data privacy. Which statement describes how Amazon Bedrock protects data privacy?

- A. User inputs and model outputs are anonymized and shared with third-party model providers.
- B. User inputs and model outputs are redacted before the inputs and outputs are shared with third-party model providers.
- C. User inputs are kept confidential, but model outputs are shared with third-party model providers.
- D. User inputs and model outputs are not shared with any third-party model providers.

Answer: D

Explanation:
Comprehensive and Detailed Explanation from AWS AI Documents:
Amazon Bedrock ensures data privacy and security by not sharing customer inputs or outputs with third-party model providers.
The models are accessed via Bedrock's API isolation layer, meaning that model providers do not see your data.
Customer data is not used for training or improving foundation models unless customers explicitly opt in.
From AWS Docs:
"Amazon Bedrock does not share your inputs and outputs with third-party model providers. Your data remains private, and is not used to improve the foundation models." This ensures full data privacy, especially for sensitive use cases like confidential documents.
Reference:
AWS Documentation - Data privacy in Amazon Bedrock

NEW QUESTION # 123
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