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AWS Certified AI Practitioner

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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">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 4	<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 5	<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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q230-Q235):

NEW QUESTION # 230

A company built a deep learning model for object detection and deployed the model to production. Which AI process occurs when the model analyzes a new image to identify objects?

- **A. Inference**
- B. Model deployment
- C. Bias correction
- D. Training

Answer: A

NEW QUESTION # 231

An AI practitioner trained a custom model on Amazon Bedrock by using a training dataset that contains confidential data. The AI practitioner wants to ensure that the custom model does not generate inference responses based on confidential data. How should the AI practitioner prevent responses based on confidential data?

- A. Encrypt the confidential data in the inference responses by using Amazon SageMaker.
- B. Encrypt the confidential data in the custom model by using AWS Key Management Service (AWS KMS).
- **C. Delete the custom model. Remove the confidential data from the training dataset. Retrain the custom model.**
- D. Mask the confidential data in the inference responses by using dynamic data masking.

Answer: C

NEW QUESTION # 232

A company wants to develop a solution that uses generative AI to create content for product advertisements, including sample images and slogans.

Select the correct model type from the following list for each action. Each model type should be selected one time. (Select THREE.)

- * Diffusion model
- * Object detection model
- * Transformer-based model

Answer:

Explanation:

Reference:

Transformer-based models (such as GPT or Amazon Titan Text) are designed for generating and understanding natural language. These models can generate coherent, contextually relevant slogans based on product information.

Object detection models are designed to identify and locate objects within images, which makes them suitable for verifying that specific brand elements (like logos or products) are correctly positioned in the generated content.

NEW QUESTION # 233

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. R-squared score
- **B. Accuracy**

- C. Root mean squared error (RMSE)
- D. Learning rate

Answer: B

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 References:

* Evaluating Machine Learning Models on AWS: AWS documentation emphasizes the use of appropriate metrics, like accuracy, for classification tasks.

NEW QUESTION # 234

A company has thousands of customer support interactions per day and wants to analyze these interactions to identify frequently asked questions and develop insights.

Which AWS service can the company use to meet this requirement?

- **A. Amazon Comprehend**
- B. Amazon Lex
- C. Amazon Transcribe
- D. Amazon Translate

Answer: A

Explanation:

Amazon Comprehend is the correct service to analyze customer support interactions and identify frequently asked questions and insights.

* Amazon Comprehend:

* A natural language processing (NLP) service that uses machine learning to uncover insights and relationships in text.

* Capable of extracting key phrases, detecting entities, analyzing sentiment, and identifying topics from text data, making it ideal for analyzing customer support interactions.

* Why Option B is Correct:

* Text Analysis Capabilities: Can process large volumes of text to identify common topics, phrases, and sentiment, providing valuable insights.

* Suitable for Customer Support Analysis: Specifically designed to understand the content and meaning of text, which is key for identifying frequently asked questions.

* Why Other Options are Incorrect:

* A. Amazon Lex: Used for building conversational interfaces, not for text analysis.

* C. Amazon Transcribe: Converts speech to text but does not perform text analysis.

* D. Amazon Translate: Used for translating text between languages, not for analyzing content.

NEW QUESTION # 235

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