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Amazon AWS Certified AI Practitioner Sample Questions (Q156-Q161):

NEW QUESTION # 156

A financial company uses AWS to host its generative AI models. The company must generate reports to show adherence to

international regulations for handling sensitive customer data.

- **A. AWS Artifact**
- B. AWS Config
- C. AWS Secrets Manager
- D. Amazon Macie

Answer: A

Explanation:

Comprehensive and Detailed

AWS Artifact provides compliance reports and certifications (ISO, SOC, GDPR-related documentation) to prove regulatory adherence.

NEW QUESTION # 157

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

Answer: B

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 Reference:

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 # 158

A company wants to build and deploy ML models on AWS without writing any code.

Which AWS service or feature meets these requirements?

- A. AWS DeepRacer
- B. Amazon Comprehend
- C. Amazon Rekognition
- **D. Amazon SageMaker Canvas**

Answer: D

NEW QUESTION # 159

A company makes forecasts each quarter to decide how to optimize operations to meet expected demand. The company uses ML models to make these forecasts.

An AI practitioner is writing a report about the trained ML models to provide transparency and explainability to company stakeholders.

What should the AI practitioner include in the report to meet the transparency and explainability requirements?

- **A. Partial dependence plots (PDPs)**
- B. Code for model training
- C. Model convergence tables
- D. Sample data for training

Answer: A

Explanation:

Partial dependence plots (PDPs) are visual tools used to show the relationship between a feature (or a set of features) in the data and the predicted outcome of a machine learning model. They are highly effective for providing transparency and explainability of the model's behavior to stakeholders by illustrating how different input variables impact the model's predictions.

* Option B (Correct): "Partial dependence plots (PDPs)": This is the correct answer because PDPs help to interpret how the model's predictions change with varying values of input features, providing stakeholders with a clearer understanding of the model's decision-making process.

* Option A: "Code for model training" is incorrect because providing the raw code for model training may not offer transparency or explainability to non-technical stakeholders.

* Option C: "Sample data for training" is incorrect as sample data alone does not explain how the model works or its decision-making process.

* Option D: "Model convergence tables" is incorrect. While convergence tables can show the training process, they do not provide insights into how input features affect the model's predictions.

AWS AI Practitioner References:

* Explainability in AWS Machine Learning: AWS provides various tools for model explainability, such as Amazon SageMaker Clarify, which includes PDPs to help explain the impact of different features on the model's predictions.

NEW QUESTION # 160

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

Answer: B

Explanation:

Inference is the correct answer because it is the AI process that occurs when a deployed model analyzes new data (such as an image) to make predictions or identify objects.

* Inference:

* In the context of machine learning, inference is the process of using a trained model to make predictions on new, unseen data.

* When the deep learning model is deployed to production and receives a new image for analysis, it uses the learned patterns from the training phase to identify objects in the image. This is known as inference.

* Why Option B is Correct:

* Inference Process: Involves applying the trained model to real-world data (the new image) to identify objects.

* Deployment Context: The model has already been trained, and the deployment to production indicates it is being used for inference.

* Why Other Options are Incorrect:

* A. Training: Refers to the process of teaching the model using historical data, not making predictions on new data.

* C. Model deployment: Refers to the process of making a trained model available for use in production.

* D. Bias correction: Is a process to adjust a model to minimize bias, not for analyzing new images.

NEW QUESTION # 161

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