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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"> • 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 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"> • 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 (Q230-Q235):

NEW QUESTION # 230

A company is working on a large language model (LLM) and noticed that the LLM's outputs are not as diverse as expected. Which parameter should the company adjust?

- **A. Temperature**
- B. Batch size
- C. Optimizer type
- D. Learning rate

Answer: A

Explanation:

The correct answer is A because temperature controls the randomness of a language model's output. A higher temperature increases diversity by making the model more likely to explore less probable tokens, while a lower temperature results in more deterministic and repetitive outputs.

From AWS documentation:

"The temperature parameter in LLMs adjusts the randomness of generated responses. Higher values (e.g., 0.8-1.0) produce more creative and diverse output, while lower values (e.g., 0.1-0.3) make output more focused and repetitive."

Explanation of other options:

B). Batch size is related to training efficiency, not output diversity.

C). Learning rate affects the training convergence rate, not inference-time output variety.

D). Optimizer type is a training configuration that influences how the model learns during training, not diversity during inference.

Referenced AWS AI/ML Documents and Study Guides:

* Amazon Bedrock - Parameter Tuning Guide

* AWS Machine Learning Specialty Guide - LLM Inference Parameters

NEW QUESTION # 231

A social media company wants to use a large language model (LLM) to summarize messages. The company has chosen a few LLMs that are available on Amazon SageMaker JumpStart. The company wants to compare the generated output toxicity of these models.

Which strategy gives the company the ability to evaluate the LLMs with the LEAST operational overhead?

- A. Model evaluation with human workers
- B. Crowd-sourced evaluation
- **C. Automatic model evaluation**
- D. Reinforcement learning from human feedback (RLHF)

Answer: C

Explanation:

The least operational overhead comes from automated tools that can scan and evaluate LLM outputs for toxicity. AWS and SageMaker JumpStart support integrations with automatic evaluation tools and APIs (such as Amazon Comprehend or third-party toxicity classifiers).

B is correct: Automated evaluation provides quick, scalable, and repeatable analysis, requiring minimal human intervention.

A and C require manual effort, increasing operational overhead.

D (RLHF) is resource-intensive and not designed for rapid, automated model comparison.

"Automated evaluation can quickly assess generated text for specific attributes like toxicity, sentiment, or compliance using pre-trained classifiers, reducing human involvement and operational complexity." (Reference: AWS SageMaker JumpStart Evaluation, AWS AI Practitioner Guide)

"Automated evaluation can quickly assess generated text for specific attributes like toxicity, sentiment, or compliance using pre-trained classifiers, reducing human involvement and operational complexity." (Reference: AWS SageMaker JumpStart Evaluation, AWS AI Practitioner Guide)

NEW QUESTION # 232

A company is developing an ML model to make loan approvals. The company must implement a solution to detect bias in the model. The company must also be able to explain the model's predictions.

Which solution will meet these requirements?

- A. Amazon SageMaker Data Wrangler
- B. Amazon SageMaker Model Cards
- **C. Amazon SageMaker Clarify**
- D. AWS AI Service Cards

Answer: C

Explanation:

Amazon SageMaker Clarify provides built-in tools to detect bias in data and models, and to generate detailed explainability reports for model predictions, including SHAP values and feature importance.

* A is correct:

"Amazon SageMaker Clarify provides bias detection, explainability for ML models, and comprehensive reports to satisfy regulatory and ethical requirements." (Reference: Amazon SageMaker Clarify Overview)

* B (Data Wrangler) is for data preparation, not bias/explainability.

* C (Model Cards) document models, but don't detect bias or explain predictions.

* D (AI Service Cards) provide transparency for AWS AI services, not custom model explainability.

NEW QUESTION # 233

A company wants to develop ML applications to improve business operations and efficiency.

Select the correct ML paradigm from the following list for each use case. Each ML paradigm should be selected one or more times. (Select FOUR.)

- * Supervised learning
- * Unsupervised learning

Answer:

Explanation:

Explanation:

The company is developing ML applications for various use cases, and the task is to select the correct ML paradigm (supervised or unsupervised learning) for each. Supervised learning involves training a model on labeled data to make predictions, while unsupervised learning identifies patterns or structures in unlabeled data. Each use case aligns with one of these paradigms based on its requirements.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Supervised learning uses labeled data to train models for tasks like classification (e.g., binary or multi-class classification), where the model predicts a category. Unsupervised learning works with unlabeled data for tasks like clustering (e.g., K-means clustering) or dimensionality reduction, identifying patterns or reducing data complexity without predefined labels." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Strategies) Detailed Explanation:

* Binary classification: Supervised learning Binary classification involves predicting one of two classes (e.g., yes/no, spam/not spam) using labeled data, making it a supervised learning task. The model learns from examples where the correct class is provided.

* Multi-class classification: Supervised learning Multi-class classification extends binary classification to predict one of multiple classes (e.g., categorizing items into several groups). Like binary classification, it requires labeled data, so it falls under supervised learning.

* K-means clustering: Unsupervised learning K-means clustering groups data into clusters based on similarity, without requiring labeled data. This is a classic unsupervised learning task, as the algorithm identifies patterns in the data on its own.

* Dimensionality reduction: Unsupervised learning Dimensionality reduction (e.g., using techniques like PCA) reduces the number of features in a dataset while preserving important information. It does not require labeled data, making it an unsupervised learning task.

Hotspot Selection Analysis:

The hotspot lists four use cases, each with a dropdown containing "Select...", "Supervised learning," and

"Unsupervised learning." The correct selections are:

* Binary classification: Supervised learning

* Multi-class classification: Supervised learning

* K-means clustering: Unsupervised learning

* Dimensionality reduction: Unsupervised learning

Each paradigm (supervised and unsupervised learning) is used twice, as the question allows for paradigms to be selected one or more times.

References:

AWS AI Practitioner Learning Path: Module on Machine Learning Strategies Amazon SageMaker Developer Guide: Supervised and Unsupervised Learning (<https://docs.aws.amazon.com/sagemaker/latest/dg/algos.html>)

AWS Documentation: Introduction to Machine Learning Paradigms (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 234

Which option is a disadvantage of using generative AI models in production systems?

- A. Deterministic and consistent behavior
- B. Negligible computational resource requirements
- C. Hallucinations and inaccuracies
- D. Possible high accuracy and reliability

Answer: C

Explanation:

AWS documentation identifies hallucinations and inaccuracies as a key challenge when deploying generative AI models in production environments. Hallucinations occur when a model generates responses that are plausible-sounding but factually incorrect, unsupported, or misleading.

Generative AI models are probabilistic by nature and do not have an inherent understanding of truth. AWS emphasizes that these models generate outputs based on patterns learned from training data, which can lead to confident but incorrect responses, especially when prompts lack sufficient context or when the model is asked about information outside its training scope.

The other options do not represent disadvantages. High accuracy and reliability are desired outcomes, not limitations. Deterministic behavior is not typical of generative models and is not a disadvantage. Negligible computational requirements are incorrect, as generative models typically require significant compute resources.






AWS recommends mitigation strategies such as Retrieval Augmented Generation, human review, prompt engineering, and output validation to reduce hallucinations. Nevertheless, hallucinations remain a known risk, making this option the correct answer.

NEW QUESTION # 235

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