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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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 5	• 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 (Q72-Q77):

NEW QUESTION # 72
An AI practitioner is developing a new ML model. After training the model, the AI practitioner evaluates the accuracy of the model's predictions. The model's accuracy is low when the model uses both the training dataset and the test dataset.
Which scenario is the MOST likely cause of this problem?

- A. Overfitting
- B. Hallucination
- C. Underfitting
- D. Cross-validation

Answer: C

Explanation:
Underfitting occurs when a machine learning model is too simple to capture the underlying patterns in the training data. AWS documentation explains that an underfit model performs poorly on both training and test datasets, which directly matches the scenario described.
In this case, the model shows low accuracy during training and evaluation, indicating that it has not learned sufficient relationships from the data. AWS identifies common causes of underfitting as insufficient model complexity, inadequate feature representation, overly aggressive regularization, or insufficient training time.
Underfitting is different from overfitting. Overfitting occurs when a model performs well on training data but poorly on test data, which is not the situation here. Hallucination applies to generative AI outputs, not supervised ML model accuracy. Cross-validation is a model evaluation technique, not a cause of poor performance.
AWS emphasizes the importance of diagnosing underfitting early in the model development lifecycle.
Remedies include increasing model complexity, adding relevant features, reducing regularization, or selecting a more expressive algorithm. These steps allow the model to better learn from the data and improve accuracy across both training and test sets.
AWS machine learning best practices clearly associate low performance on both datasets with underfitting, making this the most likely cause of the problem described.

NEW QUESTION # 73
A financial company uses a generative AI model to assign credit limits to new customers. The company wants to make the decision-making process of the model more transparent to its customers.

- A. Develop an interactive UI for customers and provide clear technical explanations about the system.
- B. Use a rule-based system instead of an ML model.
- C. Apply explainable AI techniques to show customers which factors influenced the model's decision.
- D. Increase the accuracy of the model to reduce the need for transparency.

Answer: C

Explanation:
According to the AWS Certified AI Practitioner documentation, explainable AI (XAI) refers to methods and techniques that make the behavior and predictions of machine learning models more understandable and transparent to users and stakeholders. In financial use cases, especially when decisions such as credit limits are made, regulatory and ethical concerns demand transparency about how such decisions are reached.
Option B is correct because applying explainable AI techniques (such as SHAP, LIME, or Amazon SageMaker Clarify) allows organizations to provide customers with clear insights into which data points or factors contributed to the model's decision. This aligns with best practices for responsible AI as defined in the AWS documentation, which states:
"Explainable AI increases transparency and trust in machine learning applications by helping users and regulators understand the decision process behind model predictions." (Reference: AWS AI/ML Best Practices - Explainable AI, AWS AI Practitioner Exam Guide)
"Explainable AI increases transparency and trust in machine learning applications by helping users and regulators understand the decision process behind model predictions." (Reference: AWS AI/ML Best Practices - Explainable AI, AWS AI Practitioner Exam Guide) Option A suggests switching to a rule-based system, which is not practical for complex problems addressed by generative AI and may reduce model performance.
Option C (just a UI) does not inherently provide transparency into the model's reasoning, unless paired with explainability techniques.

Option D (accuracy over transparency) does not address the company's requirement for transparency.
Reference:
AWS Certified AI Practitioner Exam Guide
Amazon SageMaker Clarify Documentation

NEW QUESTION # 74
A company wants to make a chatbot to help customers. The chatbot will help solve technical problems without human intervention. The company chose a foundation model (FM) for the chatbot. The chatbot needs to produce responses that adhere to company tone.
Which solution meets these requirements?

- A. Define a higher number for the temperature parameter.
- B. Experiment and refine the prompt until the FM produces the desired responses.
- C. Set a low limit on the number of tokens the FM can produce.
- D. Use batch inferencing to process detailed responses.

Answer: B

NEW QUESTION # 75
A financial company is using ML to help with some of the company's tasks.
Which option is a use of generative AI models?

- A. Summarizing customer complaints
- B. Classifying customers based on product usage
- C. Segmenting customers based on type of investments
- D. Forecasting revenue for certain products

Answer: A

Explanation:
Generative AI models (such as large language models) are designed to generate new content, such as text, summaries, images, and more. Summarizing text-like customer complaints-is a classic application of generative AI.
A is correct:
"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text."
(Reference: AWS Generative AI Use Cases)
"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text."
(Reference: AWS Generative AI Use Cases) B and C are standard ML classification/segmentation tasks.
D is a regression/prediction task, not generative.

NEW QUESTION # 76
Which type of ML technique provides the MOST explainability?

- A. Linear regression
- B. Support vector machines
- C. Random cut forest (RCF)
- D. Neural network

Answer: A

Explanation:
The most explainable model in machine learning is Linear regression. It provides clear mathematical relationships between input features and predicted outcomes, making it highly transparent. According to AWS documentation and Responsible AI best practices, linear regression models allow users to see the exact weight or coefficient assigned to each feature. This makes it easy to explain model decisions to non-technical stakeholders and is especially important in regulated industries like finance and healthcare. Support vector machines, random cut forests, and neural networks are more complex and often operate as black boxes with non-linear transformations that require additional explainability tools like SHAP or LIME. AWS recommends starting with simpler, interpretable models when transparency is a requirement.
Referenced AWS AI/ML Documents and Study Guides:

AWS Responsible AI Whitepaper - Model Transparency and Explainability
Amazon SageMaker Documentation - Interpretable Models

NEW QUESTION # 77
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