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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q115-Q120):

NEW QUESTION # 115

A company wants to build and deploy ML models on AWS without writing any code. Which AWS service or feature meets these requirements?

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

Answer: B

Explanation:

Amazon SageMaker Canvas is a visual, no-code tool for building and deploying ML models. According to the official SageMaker Canvas documentation:

"SageMaker Canvas provides a visual point-and-click interface that allows business analysts to generate accurate ML predictions without writing any code."

NEW QUESTION # 116

Which option describes embeddings in the context of AI?

- A. An encryption method for securing sensitive data
- **B. A numerical method for data representation in a reduced dimensionality space**
- C. A method for compressing large datasets
- D. A method for visualizing high-dimensional data

Answer: B

Explanation:

Embeddings in AI refer to numerical representations of data (e.g., text, images) in a lower-dimensional space, capturing semantic or contextual relationships. They are widely used in NLP and other AI tasks to represent complex data in a format that models can process efficiently.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Embeddings are numerical representations of data in a reduced dimensionality space. In natural language processing, for example, word or sentence embeddings capture semantic relationships, enabling models to process text efficiently for tasks like classification or similarity search." (Source: AWS AI Practitioner Learning Path, Module on AI Concepts) Detailed Explanation:

- * Option A: A method for compressing large datasets While embeddings reduce dimensionality, their primary purpose is not data compression but rather to represent data in a way that preserves meaningful relationships. This option is incorrect.
- * Option B: An encryption method for securing sensitive data Embeddings are not related to encryption or data security. They are used for data representation, making this option incorrect.
- * Option C: A method for visualizing high-dimensional data While embeddings can sometimes be used in visualization (e.g., t-SNE), their primary role is data representation for model processing, not visualization. This option is misleading.
- * Option D: A numerical method for data representation in a reduced dimensionality space This is the correct answer. Embeddings transform complex data into lower-dimensional numerical vectors, preserving semantic or contextual information for use in AI models.

References:

AWS AI Practitioner Learning Path: Module on AI Concepts

Amazon Comprehend Developer Guide: Embeddings for Text Analysis (<https://docs.aws.amazon.com/comprehend/latest/dg/embeddings.html>)

AWS Documentation: What are Embeddings? (<https://aws.amazon.com/what-is/embeddings/>)

NEW QUESTION # 117

A company wants to develop an educational game where users answer questions such as the following: "A jar contains six red, four green, and three yellow marbles. What is the probability of choosing a green marble from the jar?" Which solution meets these requirements with the LEAST operational overhead?

- A. Use supervised learning to create a regression model that will predict probability.
- B. Use reinforcement learning to train a model to return the probability.
- **C. Use code that will calculate probability by using simple rules and computations.**
- D. Use unsupervised learning to create a model that will estimate probability density.

Answer: C

Explanation:

The problem involves a simple probability calculation that can be handled efficiently by straightforward mathematical rules and computations. Using machine learning techniques would introduce unnecessary complexity and operational overhead.

Option C (Correct): "Use code that will calculate probability by using simple rules and computations": This is the correct answer because it directly solves the problem with minimal overhead, using basic probability rules.

Option A: "Use supervised learning to create a regression model" is incorrect as it overcomplicates the solution for a simple probability problem.

Option B: "Use reinforcement learning to train a model" is incorrect because reinforcement learning is not needed for a simple probability calculation.

Option D: "Use unsupervised learning to create a model" is incorrect as unsupervised learning is not applicable to this task.

AWS AI Practitioner Reference:

Choosing the Right Solution for AI Tasks: AWS recommends using the simplest and most efficient approach to solve a given problem, avoiding unnecessary machine learning techniques for straightforward tasks.

NEW QUESTION # 118

A company deployed a model to production. After 4 months, the model inference quality degraded. The company wants to receive a notification if the model inference quality degrades. The company also wants to ensure that the problem does not happen again. Which solution will meet these requirements?

- A. Retrain the model. Monitor model drift by using Amazon SageMaker Clarify.
- B. Build a new model. Monitor model drift by using Amazon SageMaker Feature Store.
- **C. Retrain the model. Monitor model drift by using Amazon SageMaker Model Monitor.**
- D. Build a new model. Monitor model drift by using Amazon SageMaker JumpStart.

Answer: C

Explanation:

The company needs to address the degradation in model inference quality after 4 months in production and prevent future

occurrences by receiving notifications. Retraining the model can address the current degradation, likely caused by data drift (changes in the data distribution over time). Amazon SageMaker Model Monitor is designed to detect and monitor model drift, alerting the company when inference quality degrades, thus meeting both requirements.

Exact Extract from AWS AI Documents:

From the Amazon SageMaker Developer Guide:

"Amazon SageMaker Model Monitor enables you to monitor machine learning models in production for data drift, model performance degradation, and other quality issues. It can detect drift in feature distributions and inference quality, sending notifications when deviations are detected, allowing you to take corrective actions such as retraining the model." (Source: Amazon SageMaker Developer Guide, Monitoring Models with SageMaker Model Monitor) Detailed Option A: Retrain the model. Monitor model drift by using Amazon SageMaker Clarify. SageMaker Clarify is used for bias detection and explainability, not for monitoring model drift or inference quality in production. This option does not fully meet the requirements.

Option B: Retrain the model. Monitor model drift by using Amazon SageMaker Model Monitor. This is the correct answer.

Retraining addresses the current degradation, and SageMaker Model Monitor can detect future drift in inference quality, sending notifications to prevent recurrence, as required.

Option C: Build a new model. Monitor model drift by using Amazon SageMaker Feature Store. SageMaker Feature Store is for managing and sharing features, not for monitoring model drift or inference quality. Building a new model may not be necessary if retraining can address the issue.

Option D: Build a new model. Monitor model drift by using Amazon SageMaker JumpStart. SageMaker JumpStart provides pre-trained models and solutions for quick deployment, but it does not offer specific tools for monitoring model drift or inference quality in production.

Reference:

Amazon SageMaker Developer Guide: Monitoring Models with SageMaker Model Monitor

(<https://docs.aws.amazon.com/sagemaker/latest/dg/model-monitor.html>) AWS AI Practitioner Learning Path: Module on Model Monitoring and Maintenance AWS Documentation: Addressing Model Drift in Production (<https://aws.amazon.com/sagemaker/>)

NEW QUESTION # 119

A company is building an ML model. The company collected new data and analyzed the data by creating a correlation matrix, calculating statistics, and visualizing the data.

Which stage of the ML pipeline is the company currently in?

- A. Hyperparameter tuning
- B. Feature engineering
- C. Data pre-processing
- **D. Exploratory data analysis**

Answer: D

Explanation:

Exploratory data analysis (EDA) involves understanding the data by visualizing it, calculating statistics, and creating correlation matrices. This stage helps identify patterns, relationships, and anomalies in the data, which can guide further steps in the ML pipeline.

* Option C (Correct): "Exploratory data analysis": This is the correct answer as the tasks described (correlation matrix, calculating statistics, visualizing data) are all part of the EDA process.

* Option A: "Data pre-processing" is incorrect because it involves cleaning and transforming data, not initial analysis.

* Option B: "Feature engineering" is incorrect because it involves creating new features from raw data, not analyzing the data's existing structure.

* Option D: "Hyperparameter tuning" is incorrect because it refers to optimizing model parameters, not analyzing the data.

AWS AI Practitioner References:

* Stages of the Machine Learning Pipeline: AWS outlines EDA as the initial phase of understanding and exploring data before moving to more specific preprocessing, feature engineering, and model training stages.

NEW QUESTION # 120

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