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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">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">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 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">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.

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Amazon AWS Certified AI Practitioner Sample Questions (Q355-Q360):

NEW QUESTION # 355

A company is developing a mobile ML app that uses a phone's camera to diagnose and treat insect bites. The company wants to train an image classification model by using a diverse dataset of insect bite photos from different genders, ethnicities, and geographic locations around the world.

Which principle of responsible AI does the company demonstrate in this scenario?

- **A. Fairness**
- B. Transparency
- C. Explainability
- D. Governance

Answer: A

Explanation:

The company is training an image classification model for diagnosing insect bites using a diverse dataset that includes photos from different genders, ethnicities, and geographic locations. This approach demonstrates the principle of fairness in responsible AI, as it aims to reduce bias and ensure the model performs equitably across diverse populations.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Fairness in AI involves ensuring that models do not exhibit bias against certain groups and perform equitably across diverse populations. This can be achieved by training models on diverse datasets that represent various demographics, such as gender, ethnicity, and geographic location." (Source: AWS AI Practitioner Learning Path, Module on Responsible AI) Detailed Explanation:

* Option A: Fairness This is the correct answer. By using a diverse dataset, the company ensures the model is less likely to be biased against specific groups, promoting fairness in its predictions and treatments for insect bites.

* Option B: Explainability Explainability refers to making the model's decisions understandable to users, such as by providing insights into how predictions are made. The scenario focuses on dataset diversity, not explainability.

* Option C: Governance Governance involves establishing policies and processes to manage AI systems, such as compliance and oversight. The scenario does not describe governance mechanisms.

* Option D: Transparency Transparency involves disclosing how a model works, its limitations, and its data sources. While transparency is important, the scenario specifically highlights the diversity of the dataset, which aligns more directly with fairness.

References:

AWS AI Practitioner Learning Path: Module on Responsible AI

AWS Documentation: Responsible AI Principles (<https://aws.amazon.com/machine-learning/responsible-ai/>) Amazon SageMaker

Developer Guide: Bias and Fairness in ML (<https://docs.aws.amazon.com/sagemaker/latest/dg/clarify-bias.html>)

NEW QUESTION # 356

A company is using an Amazon Nova Canvas model to generate images. The model generates images successfully.

The company needs to prevent the model from including specific items in the generated images.

Which solution will meet this requirement?

- A. Use another foundation model (FM).
- B. Use a more detailed prompt.
- C. Use a higher temperature value.
- **D. Use a negative prompt.**

Answer: D

NEW QUESTION # 357

A medical company wants to develop an AI application that can access structured patient records, extract relevant information, and generate concise summaries.

Which solution will meet these requirements?

- A. Implement Amazon Kendra to provide a searchable index for medical records. Use a template-based system to format summaries.
- B. Use Amazon Textract to convert scanned documents into digital text. Design a keyword extraction system to generate summaries.
- C. Use Amazon Personalize to analyze patient engagement patterns. Integrate the output with a general purpose text summarization tool.
- **D. Use Amazon Comprehend Medical to extract relevant medical entities and relationships. Apply rule-based logic to structure and format summaries.**

Answer: D

Explanation:

Amazon Comprehend Medical is designed for processing medical records and extracting key clinical entities, useful for summaries.

Per the AWS Comprehend Medical documentation:

"Amazon Comprehend Medical enables extraction of relevant medical information from unstructured clinical text such as medications, conditions, and relationships, making it ideal for summarization tasks."

NEW QUESTION # 358

Sentiment analysis is a subset of which broader field of AI?

- **A. Natural language processing (NLP)**
- B. Robotics
- C. Time series forecasting
- D. Computer vision

Answer: A

Explanation:

Comprehensive and Detailed

Sentiment analysis is the task of determining the emotional tone or intent behind a body of text (positive, negative, neutral).

This falls under Natural Language Processing (NLP) because it deals with understanding and processing human language.

Computer vision relates to images, robotics to autonomous machines, and time series forecasting to predicting values from sequential data.

Reference:

AWS ML Glossary - NLP

NEW QUESTION # 359

A company is developing an ML model to predict heart disease risk. The model uses patient data, such as age, cholesterol, blood pressure, smoking status, and exercise habits. The dataset includes a target value that indicates whether a patient has heart disease.

Which ML technique will meet these requirements?

- A. Unsupervised learning
- **B. Supervised learning**
- C. Reinforcement learning
- D. Semi-supervised learning

Answer: B

Explanation:

This scenario describes a classic supervised learning problem. Supervised learning involves training a model on a labeled dataset where the correct output (also called the target variable or ground truth) is already known.

In this case, the company has a dataset containing features such as age, cholesterol, and exercise habits, and a label indicating whether a patient has heart disease or not. This matches the definition of a binary classification task, which is a type of supervised learning. According to the AWS Machine Learning Specialty Study Guide, supervised learning is most effective when labels are available for all training examples, and the goal is to map input variables to a known output. This method enables the model to learn patterns and predict the presence or absence of heart disease. By contrast, unsupervised learning is used when labels are not available, and reinforcement learning involves agents learning via rewards and punishments, which is not applicable here. Semi-supervised learning is used when only some data is labeled.

Referenced AWS AI/ML Documents and Study Guides:

AWS Certified Machine Learning Specialty Guide - Supervised vs. Unsupervised Learning Amazon SageMaker Documentation - Classification Models

NEW QUESTION # 360

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