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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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">• 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	<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 (Q157-Q162):

NEW QUESTION # 157

A loan company is building a generative AI-based solution to offer new applicants discounts based on specific business criteria. The company wants to build and use an AI model responsibly to minimize bias that could negatively affect some customers. Which actions should the company take to meet these requirements? (Select TWO.)

- A. Evaluate the model's behavior so that the company can provide transparency to stakeholders.
- B. Detect imbalances or disparities in the data.
- C. Ensure that the model's inference time is within the accepted limits.
- D. Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate.
- E. Ensure that the model runs frequently.

Answer: A,B

Explanation:

To build an AI model responsibly and minimize bias, it is essential to ensure fairness and transparency throughout the model development and deployment process. This involves detecting and mitigating data imbalances and thoroughly evaluating the model's behavior to understand its impact on different groups.

Option A (Correct): "Detect imbalances or disparities in the data": This is correct because identifying and addressing data imbalances or disparities is a critical step in reducing bias. AWS provides tools like Amazon SageMaker Clarify to detect bias during data preprocessing and model training.

Option C (Correct): "Evaluate the model's behavior so that the company can provide transparency to stakeholders": This is correct because evaluating the model's behavior for fairness and accuracy is key to ensuring that stakeholders understand how the model makes decisions. Transparency is a crucial aspect of responsible AI.

Option B: "Ensure that the model runs frequently" is incorrect because the frequency of model runs does not address bias.

Option D: "Use the Recall-Oriented Understudy for Gisting Evaluation (ROUGE) technique to ensure that the model is 100% accurate" is incorrect because ROUGE is a metric for evaluating the quality of text summarization models, not for minimizing bias.

Option E: "Ensure that the model's inference time is within the accepted limits" is incorrect as it relates to performance, not bias reduction.

AWS AI Practitioner References:

Amazon SageMaker Clarify: AWS offers tools such as SageMaker Clarify for detecting bias in datasets and models, and for understanding model behavior to ensure fairness and transparency.

Responsible AI Practices: AWS promotes responsible AI by advocating for fairness, transparency, and inclusivity in model development and deployment.

NEW QUESTION # 158

A company wants to assess internet quality in remote areas of the world. The company needs to collect internet speed data and store the data in Amazon RDS. The company will analyze internet speed variation throughout each day. The company wants to create an AI model to predict potential internet disruptions.

Which type of data should the company collect for this task?

- A. Audio data
- B. Text data
- C. Tabular data
- D. Time series data

Answer: D

NEW QUESTION # 159

A company has a database of petabytes of unstructured data from internal sources. The company wants to transform this data into a structured format so that its data scientists can perform machine learning (ML) tasks.

Which service will meet these requirements?

- A. Amazon Lex
- B. Amazon Rekognition
- C. Amazon Kinesis Data Streams
- D. AWS Glue

Answer: D

Explanation:

AWS Glue is the correct service for transforming petabytes of unstructured data into a structured format suitable for machine learning tasks.

* AWS Glue:

* A fully managed extract, transform, and load (ETL) service that makes it easy to prepare and transform unstructured data into a structured format.

* Provides a range of tools for cleaning, enriching, and cataloging data, making it ready for data scientists to use in ML models.

* Why Option D is Correct:

* Data Transformation: AWS Glue can handle large volumes of data and transform unstructured data into structured formats efficiently.

* Integrated ML Support: Glue integrates with other AWS services to support ML workflows.

* Why Other Options are Incorrect:

* A. Amazon Lex: Used for building chatbots, not for data transformation.

* B. Amazon Rekognition: Used for image and video analysis, not for data transformation.

* C. Amazon Kinesis Data Streams: Handles real-time data streaming, not suitable for batch transformation of large volumes of unstructured data.

NEW QUESTION # 160

Which metric measures the runtime efficiency of operating AI models?

- A. Customer satisfaction score (CSAT)
- B. Average response time
- C. Training time for each epoch
- D. Number of training instances

Answer: B

NEW QUESTION # 161

A company uses Amazon SageMaker for its ML pipeline in a production environment. The company has large input data sizes up to 1 GB and processing times up to 1 hour. The company needs near real-time latency.

Which SageMaker inference meets these requirements?

- A. Asynchronous inference
- B. Serverless inference
- C. Batch transform
- D. Real-time inference

Answer: D

Explanation:

Real-time inference is designed to provide immediate, low-latency predictions, which is necessary when the company requires near real-time latency for its ML models. This option is optimal when there is a need for fast responses, even with large input data sizes and substantial processing times.

* Option A (Correct): "Real-time inference": This is the correct answer because it supports low- latency requirements, which are

essential for real-time applications where quick response times are needed.

* Option B: "Serverless inference" is incorrect because it is more suited for intermittent, small-scale inference workloads, not for continuous, large-scale, low-latency needs.

* Option C: "Asynchronous inference" is incorrect because it is used for workloads that do not require immediate responses.

* Option D: "Batch transform" is incorrect as it is intended for offline, large-batch processing where immediate response is not necessary.

AWS AI Practitioner References:

* Amazon SageMaker Inference Options: AWS documentation describes real-time inference as the best solution for applications that require immediate prediction results with low latency.

NEW QUESTION # 162

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