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Amazon AWS Certified AI Practitioner Sample Questions (Q68-Q73):

NEW QUESTION # 68

A company is using supervised learning to train an AI model on a small labeled dataset that is specific to a target task. Which step of

the foundation model (FM) lifecycle does this describe?

- A. Fine-tuning
- B. Pre-training
- C. Data selection
- D. Evaluation

Answer: A

Explanation:

- * Fine-tuning involves training an already pre-trained FM on a smaller, labeled dataset for task specialization.
- * Data selection is about curating training data.
- * Pre-training is the initial training phase on massive datasets.
- * Evaluation happens after training, not during.

Reference:

AWS Documentation - Fine-tuning in Amazon Bedrock

NEW QUESTION # 69

A bank has fine-tuned a large language model (LLM) to expedite the loan approval process. During an external audit of the model, the company discovered that the model was approving loans at a faster pace for a specific demographic than for other demographics.

How should the bank fix this issue MOST cost-effectively?

- A. Use Retrieval Augmented Generation (RAG) with the fine-tuned model.
- B. **Include more diverse training data. Fine-tune the model again by using the new data.**
- C. Use AWS Trusted Advisor checks to eliminate bias.
- D. Pre-train a new LLM with more diverse training data.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The best practice for mitigating bias in AI/ML models, according to AWS and responsible AI frameworks, is to ensure that the training data is representative and diverse. If a model demonstrates bias (such as favoring a particular demographic), the recommended, cost-effective approach is to collect additional data from underrepresented groups and retrain (fine-tune) the model with the improved dataset.

* A. Include more diverse training data. Fine-tune the model again by using the new data:

"The most effective method to reduce model bias is to curate and include diverse, representative training data, then retrain or fine-tune the model." (Reference: AWS Responsible AI, SageMaker Clarify Bias Mitigation)

* B (RAG) is unrelated to model fairness or bias mitigation; it's for grounding LLMs with external knowledge.

* C (AWS Trusted Advisor) is for AWS resource optimization/security-not for ML model bias detection or mitigation.

* D (Pre-train a new LLM) would be extremely costly and is unnecessary; fine-tuning with better data is much more efficient.

References:

Responsible AI on AWS

Amazon SageMaker Clarify: Detecting and Mitigating Bias

AWS Certified AI Practitioner Exam Guide

NEW QUESTION # 70

An ecommerce company is using a chatbot to automate the customer order submission process. The chatbot is powered by AI and is available to customers directly from the company's website 24 hours a day, 7 days a week.

Which option is an AI system input vulnerability that the company needs to resolve before the chatbot is made available?

- A. Concept drift
- B. Large language model (LLM) hallucinations
- C. **Data leakage**
- D. Prompt injection

Answer: C

Explanation:

The ecommerce company's chatbot, powered by AI, automates customer order submissions and is accessible 24/7 via the website. Prompt injection is an AI system input vulnerability where malicious users craft inputs to manipulate the chatbot's behavior, such as bypassing safeguards or accessing unauthorized information. This vulnerability must be resolved before the chatbot is made available to ensure security.

Exact Extract from AWS AI Documents:

From the AWS Bedrock User Guide:

"Prompt injection is a vulnerability in AI systems, particularly chatbots, where malicious inputs can manipulate the model's behavior, potentially leading to unauthorized actions or harmful outputs. Implementing guardrails and input validation can mitigate this risk."

(Source: AWS Bedrock User Guide, Security Best Practices) Detailed Option A: Data leakageData leakage refers to the

unintended exposure of sensitive data during model training or inference, not an input vulnerability affecting a chatbot's operation.

Option B: Prompt injectionThis is the correct answer. Prompt injection is a critical input vulnerability for chatbots, where malicious prompts can exploit the AI to produce harmful or unauthorized responses, a risk that must be addressed before launch.

Option C: Large language model (LLM) hallucinationsLLM hallucinations refer to the model generating incorrect or ungrounded responses, which is an output issue, not an input vulnerability.

Option D: Concept driftConcept drift occurs when the data distribution changes over time, affecting model performance. It is not an input vulnerability but a long-term performance issue.

Reference:

AWS Bedrock User Guide: Security Best Practices (<https://docs.aws.amazon.com/bedrock/latest/userguide/security.html>)

AWS AI Practitioner Learning Path: Module on AI Security and Vulnerabilities

AWS Documentation: Securing AI Systems (<https://aws.amazon.com/security/>)

NEW QUESTION # 71

A company has a foundation model (FM) that was customized by using Amazon Bedrock to answer customer queries about products. The company wants to validate the model's responses to new types of queries. The company needs to upload a new dataset that Amazon Bedrock can use for validation.

Which AWS service meets these requirements?

- A. AWS Showcone
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Block Store (Amazon EBS)
- D. **Amazon S3**

Answer: D

Explanation:

Amazon S3 is the optimal choice for storing and uploading datasets used for machine learning model validation and training. It offers scalable, durable, and secure storage, making it ideal for holding datasets required by Amazon Bedrock for validation purposes.

Option A (Correct): "Amazon S3": This is the correct answer because Amazon S3 is widely used for storing large datasets that are accessed by machine learning models, including those in Amazon Bedrock.

Option B: "Amazon Elastic Block Store (Amazon EBS)" is incorrect because EBS is a block storage service for use with Amazon EC2, not for directly storing datasets for Amazon Bedrock.

Option C: "Amazon Elastic File System (Amazon EFS)" is incorrect as it is primarily used for file storage with shared access by multiple instances.

Option D: "AWS Snowcone" is incorrect because it is a physical device for offline data transfer, not suitable for directly providing data to Amazon Bedrock.

AWS AI Practitioner Reference:

Storing and Managing Datasets on AWS for Machine Learning: AWS recommends using S3 for storing and managing datasets required for ML model training and validation.

NEW QUESTION # 72

A research group wants to test different generative AI models to create research papers. The research group has defined a prompt and needs a method to assess the models' output. The research group wants to use a team of scientists to perform the output assessments.

Which solution will meet these requirements?

- A. Use sentiment analysis on Amazon Comprehend.
- B. Use automatic evaluation on Amazon Personalize.

- C. Use model evaluation on Amazon Bedrock.
- D. Use content moderation on Amazon Rekognition.

Answer: C

Explanation:

The correct answer is C because Amazon Bedrock's model evaluation feature allows users to compare outputs from different foundation models using human evaluation or automatic metrics. It enables the creation of structured evaluations where human reviewers (in this case, scientists) can assess model responses based on custom criteria like relevance, coherence, or accuracy. From AWS documentation:

"Amazon Bedrock provides model evaluation capabilities that support both automatic and human evaluation. You can define custom evaluation prompts and collect assessments from reviewers to compare foundation model outputs for tasks such as summarization, text generation, and more." This solution is ideal for research workflows requiring domain experts to provide feedback on LLM-generated content.

Explanation of other options:

- A . Amazon Personalize is used for building recommendation systems, not for evaluating model output.
- B . Amazon Rekognition is used for analyzing images and videos (e.g, moderation, facial recognition), not textual output.
- D . Amazon Comprehend provides NLP services like sentiment analysis, but sentiment is not sufficient for full quality evaluation of research paper generation.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Model Evaluation Overview

AWS Generative AI Best Practices

AWS ML Specialty Study Guide - Evaluation and Feedback Loops in LLMs

NEW QUESTION # 73

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