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Amazon AWS Certified AI Practitioner Sample Questions (Q79-Q84):

NEW QUESTION # 79
A company wants to classify human genes into 20 categories based on gene characteristics. The company needs an ML algorithm to document how the inner mechanism of the model affects the output.
Which ML algorithm meets these requirements?

- A. Decision trees
- B. Linear regression
- C. Neural networks
- D. Logistic regression

Answer: A

Explanation:

Decision trees are an interpretable machine learning algorithm that clearly documents the decision-making process by showing how each input feature affects the output. This transparency is particularly useful when explaining how the model arrives at a certain decision, making it suitable for classifying genes into categories.
* Option A (Correct): "Decision trees": This is the correct answer because decision trees provide a clear and interpretable representation of how input features influence the model's output, making it ideal for understanding the inner mechanisms affecting predictions.
* Option B: "Linear regression" is incorrect because it is used for regression tasks, not classification.
* Option C: "Logistic regression" is incorrect as it does not provide the same level of interpretability in documenting decision-making processes.
* Option D: "Neural networks" is incorrect because they are often considered "black boxes" and do not easily explain how they arrive at their outputs.
AWS AI Practitioner References:
* Interpretable Machine Learning Models on AWS: AWS supports using interpretable models, such as decision trees, for tasks that require clear documentation of how input data affects output decisions.

NEW QUESTION # 80
An accounting firm wants to implement a large language model (LLM) to automate document processing. The firm must proceed responsibly to avoid potential harms.
What should the firm do when developing and deploying the LLM? (Select TWO.)

- A. Apply prompt engineering techniques.
- B. Modify the training data to mitigate bias.
- C. Avoid overfitting on the training data.
- D. Include fairness metrics for model evaluation.
- E. Adjust the temperature parameter of the model.

Answer: B,D

Explanation:
To implement a large language model (LLM) responsibly, the firm should focus on fairness and mitigating bias, which are critical for ethical AI deployment.
A . Include Fairness Metrics for Model Evaluation:
Fairness metrics help ensure that the model's predictions are unbiased and do not unfairly discriminate against any group.
These metrics can measure disparities in model outcomes across different demographic groups, ensuring responsible AI practices.
C . Modify the Training Data to Mitigate Bias:
Adjusting training data to be more representative and balanced can help reduce bias in the model's predictions.
Mitigating bias at the data level ensures that the model learns from a diverse and fair dataset, reducing potential harms in deployment.
Why Other Options are Incorrect:
B . Adjust the temperature parameter of the model: Controls randomness in outputs but does not directly address fairness or bias.
D . Avoid overfitting on the training data: Important for model generalization but not directly related to responsible AI practices regarding fairness and bias.
E . Apply prompt engineering techniques: Useful for improving model outputs but not specifically for mitigating bias or ensuring fairness.

NEW QUESTION # 81
An AI practitioner is determining the appropriate data type for various use cases.
Select the correct data type from the following list for each use case. Select each data type one time.
□

Answer:

Explanation:
□
Explanation:
Sentiment analysis # Text data
Traffic sign recognition # Image data
Customer demographics & purchase history # Tabular data
Stock price forecasting # Time series data
AWS classifies NLP tasks like sentiment analysis under text data
Computer vision tasks such as object and sign recognition use image data Structured rows and columns (demographics,

transactions) are tabular data Sequential data indexed by time (prices, metrics) is time series data

NEW QUESTION # 82
Sometimes generative AI models generate data unrelated to the input or the task.
Which term is used for this disadvantage of using generative AI for business problems?

- A. Interpretability
- B. Hallucinations
- C. Nondeterminism
- D. Data bias

Answer: B

Explanation:
AWS documentation identifies hallucinations as a known limitation of generative AI models, particularly when used in business and production environments. Hallucinations occur when a model generates outputs that are unrelated, incorrect, fabricated, or unsupported by the input data or provided context. These outputs often appear confident and fluent, which can make them difficult to detect without additional validation.
Generative AI models, including large language models, operate using probabilistic token prediction based on patterns learned during training. AWS explains that these models do not have true reasoning or factual grounding unless explicitly provided with context or external knowledge. As a result, when prompts are ambiguous, incomplete, or outside the model's training distribution, the model may produce responses that are irrelevant or misleading.
This behavior presents a risk for business use cases such as customer support, reporting, or decision-making systems. AWS highlights hallucinations as a key challenge that must be mitigated through techniques such as Retrieval Augmented Generation (RAG), prompt engineering, human review, and output validation.
The other options are not correct. Interpretability refers to the ability to understand model decisions, not incorrect outputs. Data bias relates to skewed or unfair training data. Nondeterminism refers to variability in outputs, not relevance or correctness.
AWS consistently categorizes hallucinations as a primary disadvantage of generative AI, making this the correct answer.

NEW QUESTION # 83
A company wants to develop ML applications to improve business operations and efficiency.
Select the correct ML paradigm from the following list for each use case. Each ML paradigm should be selected one or more times.
(Select FOUR.)
* Supervised learning
* Unsupervised learning
▢

Answer:

Explanation:
▢
Explanation:
▢
The company is developing ML applications for various use cases, and the task is to select the correct ML paradigm (supervised or unsupervised learning) for each. Supervised learning involves training a model on labeled data to make predictions, while unsupervised learning identifies patterns or structures in unlabeled data. Each use case aligns with one of these paradigms based on its requirements.
Exact Extract from AWS AI Documents:
From the AWS AI Practitioner Learning Path:
"Supervised learning uses labeled data to train models for tasks like classification (e.g., binary or multi-class classification), where the model predicts a category. Unsupervised learning works with unlabeled data for tasks like clustering (e.g., K-means clustering) or dimensionality reduction, identifying patterns or reducing data complexity without predefined labels." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Strategies) Detailed Explanation:
Binary classification: Supervised learningBinary classification involves predicting one of two classes (e.g., yes
/no, spam/not spam) using labeled data, making it a supervised learning task. The model learns from examples where the correct class is provided.
Multi-class classification: Supervised learningMulti-class classification extends binary classification to predict one of multiple classes (e.g., categorizing items into several groups). Like binary classification, it requires labeled data, so it falls under supervised learning.
K-means clustering: Unsupervised learningK-means clustering groups data into clusters based on similarity, without requiring labeled data. This is a classic unsupervised learning task, as the algorithm identifies patterns in the data on its own.
Dimensionality reduction: Unsupervised learningDimensionality reduction (e.g., using techniques like PCA) reduces the number of

features in a dataset while preserving important information. It does not require labeled data, making it an unsupervised learning task.

Hotspot Selection Analysis:

The hotspot lists four use cases, each with a dropdown containing "Select...," "Supervised learning," and "Unsupervised learning." The correct selections are:

Binary classification: Supervised learning

Multi-class classification: Supervised learning

K-means clustering: Unsupervised learning

Dimensionality reduction: Unsupervised learning

Each paradigm (supervised and unsupervised learning) is used twice, as the question allows for paradigms to be selected one or more times.

References:

AWS AI Practitioner Learning Path: Module on Machine Learning Strategies Amazon SageMaker Developer Guide: Supervised and Unsupervised Learning (https://docs.aws.amazon.com /sagemaker/latest/dg/algos.html)

AWS Documentation: Introduction to Machine Learning Paradigms (https://aws.amazon.com/machine- learning/)

NEW QUESTION # 84

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