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Amazon AWS Certified AI Practitioner Sample Questions (Q237-Q242):

NEW QUESTION # 237

A company wants to assess the costs that are associated with using a large language model (LLM) to generate inferences. The company wants to use Amazon Bedrock to build generative AI applications. Which factor will drive the inference costs?

- A. Number of tokens consumed
- B. Total training time

- C. Temperature value
- D. Amount of data used to train the LLM

Answer: A

Explanation:

In generative AI models, such as those built on Amazon Bedrock, inference costs are driven by the number of tokens processed. A token can be as short as one character or as long as one word, and the more tokens consumed during the inference process, the higher the cost.

* Option A (Correct): "Number of tokens consumed": This is the correct answer because the inference cost is directly related to the number of tokens processed by the model.

* Option B: "Temperature value" is incorrect as it affects the randomness of the model's output but not the cost directly.

* Option C: "Amount of data used to train the LLM" is incorrect because training data size affects training costs, not inference costs.

* Option D: "Total training time" is incorrect because it relates to the cost of training the model, not the cost of inference.

AWS AI Practitioner References:

* Understanding Inference Costs on AWS: AWS documentation highlights that inference costs for generative models are largely based on the number of tokens processed.

NEW QUESTION # 238

A company wants to build a lead prioritization application for its employees to contact potential customers. The application must give employees the ability to view and adjust the weights assigned to different variables in the model based on domain knowledge and expertise.

Which ML model type meets these requirements?

- A. Logistic regression model
- B. K-nearest neighbors (k-NN) model
- C. Neural network
- D. Deep learning model built on principal components

Answer: A

Explanation:

The company needs an ML model for a lead prioritization application where employees can view and adjust the weights assigned to different variables based on domain knowledge. Logistic regression is a linear model that assigns interpretable weights to input features, making it easy for users to understand and modify these weights. This interpretability and adjustability make it suitable for the requirements.

Exact Extract from AWS AI Documents:

From the AWS AI Practitioner Learning Path:

"Logistic regression is a supervised learning algorithm used for classification tasks. It is highly interpretable, as it assigns weights to each feature, allowing users to understand and adjust the importance of different variables based on domain expertise." (Source: AWS AI Practitioner Learning Path, Module on Machine Learning Algorithms) Detailed Option A: Logistic regression modelThis is the correct answer. Logistic regression provides interpretable coefficients (weights) for each feature, enabling employees to view and adjust them based on domain knowledge, meeting the application's requirements.

Option B: Deep learning model built on principal componentsDeep learning models, even when using principal components, are complex and lack interpretability. The weights in such models are not easily adjustable by users, making this option unsuitable.

Option C: K-nearest neighbors (k-NN) modelk-NN is a non-parametric model that does not assign explicit weights to features. It relies on distance metrics, which are not easily adjustable based on domain knowledge, so it does not meet the requirements.

Option D: Neural networkNeural networks are highly complex and lack interpretability, as their weights are not directly tied to input features in a human-understandable way. Adjusting weights based on domain knowledge is impractical, making this option incorrect.

Reference:

AWS AI Practitioner Learning Path: Module on Machine Learning Algorithms Amazon SageMaker Developer Guide: Logistic Regression (<https://docs.aws.amazon.com/sagemaker/latest/dg/algos.html>) AWS Documentation: Interpretable Machine Learning Models (<https://aws.amazon.com/machine-learning/>)

NEW QUESTION # 239

A financial company is using ML to help with some of the company's tasks.

Which option is a use of generative AI models?

- A. Classifying customers based on product usage

- B. Segmenting customers based on type of investments
- C. Forecasting revenue for certain products
- D. **Summarizing customer complaints**

Answer: D

Explanation:

Generative AI models (such as large language models) are designed to generate new content, such as text, summaries, images, and more. Summarizing text-like customer complaints is a classic application of generative AI.

A is correct:

"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text." (Reference: AWS Generative AI Use Cases)

"Text summarization is a core generative AI use case, as it involves generating new, concise content from a larger body of text." (Reference: AWS Generative AI Use Cases) B and C are standard ML classification/segmentation tasks.

D is a regression/prediction task, not generative.

NEW QUESTION # 240

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

Answer: D

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 # 241

A company wants to use generative AI to increase developer productivity and software development. The company wants to use Amazon Q Developer.

What can Amazon Q Developer do to help the company meet these requirements?

- A. **Create software snippets, reference tracking, and open-source license tracking**
- B. Run an application without provisioning or managing servers.
- C. Enable voice commands for coding and providing natural language search.
- D. Convert audio files to text documents by using ML models.

Answer: A

Explanation:

Amazon Q Developer is a tool designed to assist developers in increasing productivity by generating code snippets, managing reference tracking, and handling open-source license tracking. These features help developers by automating parts of the software

development process.

* Option A (Correct): "Create software snippets, reference tracking, and open-source license tracking": This is the correct answer because these are key features that help developers streamline and automate tasks, thus improving productivity.

* Option B: "Run an application without provisioning or managing servers" is incorrect as it refers to AWS Lambda or AWS Fargate, not Amazon Q Developer.

* Option C: "Enable voice commands for coding and providing natural language search" is incorrect because this is not a function of Amazon Q Developer.

* Option D: "Convert audio files to text documents by using ML models" is incorrect as this refers to Amazon Transcribe, not Amazon Q Developer.

AWS AI Practitioner References:

* Amazon Q Developer Features: AWS documentation outlines how Amazon Q Developer supports developers by offering features that reduce manual effort and improve efficiency.

NEW QUESTION # 242

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