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Amazon AWS Certified AI Practitioner Sample Questions (Q100-Q105):

NEW QUESTION # 100

A company is building a generative AI application and is reviewing foundation models (FMs). The company needs to consider multiple FM characteristics.

Select the correct FM characteristic from the following list for each definition. Each FM characteristic should be selected one time. (Select THREE.) Concurrency Context windows Latency

Answer:

Explanation:

NEW QUESTION # 101

A company wants to use a pre-trained generative AI model to generate content for its marketing campaigns.

The company needs to ensure that the generated content aligns with the company's brand voice and messaging requirements.

Which solution meets these requirements?

- A. Increase the model's complexity by adding more layers to the model's architecture.

- B. Create effective prompts that provide clear instructions and context to guide the model's generation.
- C. Optimize the model's architecture and hyperparameters to improve the model's overall performance.
- D. Select a large, diverse dataset to pre-train a new generative model.

Answer: B

Explanation:

Creating effective prompts is the best solution to ensure that the content generated by a pre-trained generative AI model aligns with the company's brand voice and messaging requirements.

* Effective Prompt Engineering:

* Involves crafting prompts that clearly outline the desired tone, style, and content guidelines for the model.

* By providing explicit instructions in the prompts, the company can guide the AI to generate content that matches the brand's voice and messaging.

* Why Option C is Correct:

* Guides Model Output: Ensures the generated content adheres to specific brand guidelines by shaping the model's response through the prompt.

* Flexible and Cost-effective: Does not require retraining or modifying the model, which is more resource-efficient.

* Why Other Options are Incorrect:

* A. Optimize the model's architecture and hyperparameters: Improves model performance but does not specifically address alignment with brand voice.

* B. Increase model complexity: Adding more layers may not directly help with content alignment.

* D. Pre-training a new model: Is a costly and time-consuming process that is unnecessary if the goal is content alignment.

NEW QUESTION # 102

A software company wants to use a large language model (LLM) for workflow automation. The application will transform user messages into JSON files. The company will use the JSON files as inputs for data pipelines.

The company has a labeled dataset that contains user messages and output JSON files.

Which solution will train the LLM for workflow automation?

- A. Reinforcement learning from human feedback (RLHF)
- B. Continued pre-training
- C. Fine-tuning
- D. Unsupervised learning

Answer: C

Explanation:

Fine-tuning is the process of training a pre-trained LLM with a labeled dataset specific to a desired task-in this case, mapping user messages to JSON outputs. Fine-tuning leverages supervised learning to specialize the model's outputs.

C is correct:

"Fine-tuning is a supervised learning approach in which a model is further trained on a custom, labeled dataset to adapt to a specific use case." (Reference: Amazon Bedrock Fine-Tuning, AWS Certified AI Practitioner Study Guide)

"Fine-tuning is a supervised learning approach in which a model is further trained on a custom, labeled dataset to adapt to a specific use case." (Reference: Amazon Bedrock Fine-Tuning, AWS Certified AI Practitioner Study Guide) A is incorrect-unsupervised learning does not use labeled data.

B (continued pre-training) uses unlabeled data.

D (RLHF) uses reward signals and human feedback, not direct labeled input/output pairs.

NEW QUESTION # 103

Which term is an example of output vulnerability?

- A. Parameter stealing
- B. Data poisoning
- C. Model misuse
- D. Data leakage

Answer: C

Explanation:

Model misuse is a key example of output vulnerability, where the output of a model can be intentionally or unintentionally used in ways that create harm or deviate from the model's intended purpose. According to AWS Responsible AI guidance, output vulnerabilities refer to flaws or weaknesses in how a model's predictions or generations are interpreted or used by external systems or users. This could involve using a generative model to produce harmful content, manipulate outputs to spread misinformation, or expose private information. AWS recommends that safeguards such as Guardrails, Human-in-the-Loop (HITL) validation, and ethical guidelines be enforced to mitigate these output risks. In contrast, data poisoning and data leakage are input-level vulnerabilities that corrupt model training, and parameter stealing is a model-level attack where internal configurations are extracted. Model misuse specifically reflects how outputs can be abused, making it a textbook example of output vulnerability.

Referenced AWS AI/ML Documents and Study Guides:

AWS Responsible AI Whitepaper - Output Vulnerabilities

Amazon Bedrock Documentation - Guardrails for Responsible Generation

NEW QUESTION # 104

An animation company wants to provide subtitles for its content. Which AWS service meets this requirement?

- A. Amazon Polly
- B. Amazon Comprehend
- C. Amazon Translate
- D. **Amazon Transcribe**

Answer: D

Explanation:

Amazon Transcribe is the AWS service that converts speech to text, enabling the generation of subtitles (closed captions) for audio and video content automatically.

C is correct:

"Amazon Transcribe is an automatic speech recognition (ASR) service that makes it easy for developers to add speech-to-text capability to applications." This feature supports creating subtitles and transcripts for media files.

(Reference: Amazon Transcribe Overview, AWS AI Practitioner Official Study Guide) A (Comprehend) is for NLP/text analytics.

B (Polly) is text-to-speech.

D (Translate) translates text, but does not create subtitles from audio/video.

NEW QUESTION # 105

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