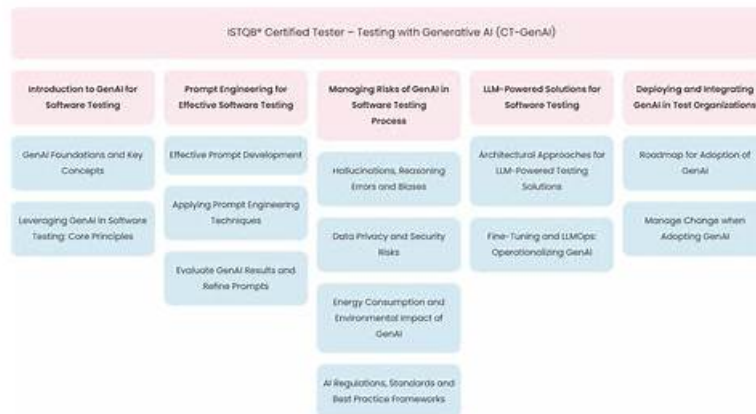


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ISQI ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Sample Questions (Q39-Q44):

NEW QUESTION # 39

Which AI approach requires feature engineering and structured data preparation?

- A. Symbolic AI
- B. Classical Machine Learning
- C. Generative AI
- D. Deep Learning

Answer: B

Explanation:

Classical Machine Learning (which includes algorithms like Random Forests, Support Vector Machines, and Linear Regression) is characterized by its reliance on Feature Engineering. This is the process where human experts manually select, extract, and transform

raw data into a set of "features" or variables that the algorithm can process. For instance, in a classical ML model predicting software defects, a tester might have to manually define features like "lines of code changed" or "number of previous bugs." In contrast, Deep Learning and its subset, Generative AI (Options B and D), utilize "Representation Learning." This means the multi-layered neural networks automatically identify and extract the relevant features from raw, often unstructured data (like text or images) without explicit human instruction. Symbolic AI (Option A) is based on hard-coded logical rules rather than data-driven learning. Understanding this distinction is fundamental for testers, as it determines the level of data preparation required: Classical ML requires high human effort in data structuring, while GenAI requires high effort in prompt engineering and grounding.

NEW QUESTION # 40

What defines a prompt pattern in the context of structured GenAI capability building?

- A. Treating prompts as access credentials or compliance records rather than functional templates
- **B. Applying a reusable and structured template that guides GenAI models toward consistent outputs**
- C. Maintaining static documentation repositories without real-time prompt standardization processes
- D. Using ad hoc prompts without reference to previously proven structures or examples

Answer: B

Explanation:

In the context of structured Generative AI capability building, a prompt pattern is a formalized method of interaction that ensures repeatability and reliability. Much like software design patterns, prompt patterns provide a reusable and structured template designed to guide Large Language Models (LLMs) toward producing specific, high-quality, and consistent outputs. Without these patterns, testers often rely on "zero-shot" or ad hoc prompting, which frequently leads to non-deterministic results that are difficult to validate in a professional testing lifecycle. By adopting prompt patterns, organizations can standardize how requirements are translated into test cases or how code is analyzed for defects. This standardization is critical for scaling GenAI across a team, as it allows for the creation of a "prompt library" where successful structures—such as Persona-based, Few-shot, or Chain-of-Thought patterns—are documented and reused. This approach moves the use of GenAI from a trial-and-error activity to a disciplined engineering practice, ensuring that the model understands the specific context, constraints, and expected output formats required for rigorous software testing tasks.

NEW QUESTION # 41

An attacker sends extremely long prompts to overflow context so the model leaks snippets from its training data. Which attack vector is this?

- **A. Data exfiltration**
- B. Malicious code generation
- C. Data poisoning
- D. Request manipulation

Answer: A

Explanation:

This scenario describes a specialized form of Data Exfiltration (specifically targeting the model's internal "weights" or training memory). While data exfiltration usually refers to stealing data from a database, in the context of LLMs, it can also refer to techniques that force the model to "reveal" sensitive information it was trained on or data that exists within its current context window. By using long, repetitive, or specifically "crafted" prompts to overwhelm the model's normal attention mechanisms or safety filters, an attacker may cause the model to output verbatim snippets of proprietary information, PII, or internal documentation that should have remained confidential. This is different from Request Manipulation (Option D), which aims to change the model's behavior, or Data Poisoning (Option C), which happens during training. In testing, this risk is high when models are fine-tuned on private company repositories. Testers must be aware that if a model is accessible to unauthorized users, those users might use adversarial prompting techniques to extract sensitive code or business logic through these types of data leakage attacks.

NEW QUESTION # 42

A prompt begins: "You are a senior test manager responsible for risk-based test planning on a payments platform." Which component is this?

- A. Instruction
- B. Constraints
- C. Context
- **D. Role**

Answer: D

Explanation:

In structured prompt engineering, the Role component (also known as a Persona) is used to set the perspective, expertise, and tone of the LLM's response. By assigning the role of a "senior test manager," the tester instructs the model to adopt the specific domain knowledge, vocabulary, and professional standards associated with that position. This technique is highly effective because LLMs are trained on vast datasets containing diverse professional documents; invoking a specific persona helps the model narrow its "latent space" to retrieve information relevant to that specific field. For instance, a senior test manager persona will prioritize risk management, resource allocation, and high-level strategy, whereas a "junior developer" persona might focus more on syntax and local unit tests. While Context (Option B) provides the background of the project and Instruction (Option A) defines the specific task to be performed, the Role serves as the foundation for how those instructions are interpreted. This ensures the generated testware aligns with the expected professional seniority and organizational maturity required for high-stakes environments like a payments platform.

NEW QUESTION # 43

Which consideration BEST aligns LLM choice with organizational goals in a GenAI testing strategy?

- A. Select open-source models prioritizing creativity over compliance or performance consistency
- B. Select models with maximum vendor visibility and strong online presence to ensure reliability
- **C. Select LLMs aligned to measurable test outcomes, compatible with current infrastructure**
- D. Select broad-coverage models offering diverse functionalities for various test scenarios

Answer: C

Explanation:

A mature GenAI strategy for software testing must move beyond "hype" and focus on tangible value and operational feasibility. Selecting an LLM based on measurable test outcomes (such as reduction in test design time, increase in defect detection, or script accuracy) ensures that the AI investment directly supports the organization's Quality Assurance goals. Furthermore, the model must be compatible with current infrastructure. This includes considerations for data security (on-prem vs. cloud), API integration capabilities, and cost-per-token efficiency. While vendor visibility (Option A) can be a factor, it is not a guarantee of task-specific performance. Prioritizing creativity over compliance (Option B) is highly risky for testing, where precision and policy adherence are paramount. Similarly, while broad functionality (Option C) is useful, it often results in "jack-of-all-trades" models that may not perform as well as specialized or instruction-tuned models on specific testing tasks. Strategic alignment requires a balance between model performance, organizational security requirements, and clear KPIs.

NEW QUESTION # 44

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