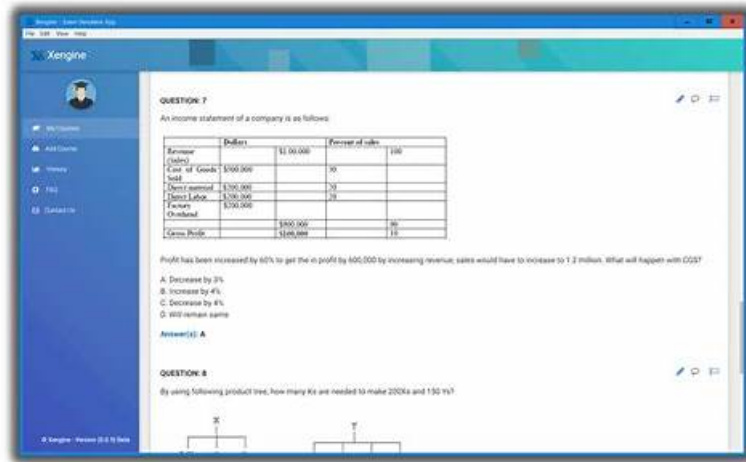


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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Responsible :This section of the exam measures skills of AI Ethics Officers and Risk Managers and covers the responsible and ethical usage of AI technologies. It explains the risks and limitations associated with generative AI tools, including biases in training data and the need to validate AI outputs. Candidates learn how to operate AI responsibly by identifying potential harms such as bias, fairness, privacy concerns, and mitigating these harms by applying ethical AI principles.
Topic 2	<ul style="list-style-type: none">Privacy Fundamentals and Context Exclusions: This domain focuses on Security Engineers and Compliance Officers and addresses improving code quality with Copilot's test suggestions and security optimizations. It covers identification of security vulnerabilities, performance enhancements, and privacy features like content exclusions at repository and organization levels with explanation of their limitations. Candidates learn about safeguarding mechanisms such as duplication detection, contractual protections, security checks, and troubleshooting guide for common Copilot issues including context exclusions and suggestion gaps.
Topic 3	<ul style="list-style-type: none">GitHub Copilot Plans and Feature: This domain targets Product Managers and DevOps Engineers and focuses on understanding the various GitHub Copilot subscription plans like Individual, Business, and Enterprise, including distinctions and management features. It covers how Copilot is integrated into IDEs, different triggering methods for code suggestions, organizational policy management, subscription administration via API, and effective use of Copilot Chat and Knowledge Bases. Candidates also learn about CLI usage and configuration.
Topic 4	<ul style="list-style-type: none">Developer Use Cases for AI: Targeting Software Engineers and Technical Leads, this domain elaborates on how AI improves developer productivity across common tasks like learning new languages, translation, documentation, debugging, data science, and refactoring. It discusses Copilot's support in software development lifecycle management and highlights its limitations. Use of the productivity API to track Copilot's impact is also included.

Topic 5	<ul style="list-style-type: none"> Domain 6: Testing with GitHub Copilot: This section measures abilities of QA Engineers and Test Automation Specialists to use Copilot for test generation, including unit and integration tests. It explains how Copilot can identify edge cases and assist in writing assertions. The domain also covers different Copilot subscription SKUs, privacy considerations, organizational code suggestion settings, and configuration files related to Copilot.
Topic 6	<ul style="list-style-type: none"> How GitHub Copilot Works and Handles Data: Designed for Machine Learning Engineers and Data Privacy Specialists, this section covers the data lifecycle and processing behind Copilot's code suggestions. It explains how context is gathered, prompts constructed, responses generated, and post-processed through proxy services. Candidates understand Copilot's data policies, handling of inputs, and limitations such as context window size and data age influencing suggestion relevance.

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Microsoft GitHub Copilot Sample Questions (Q42-Q47):

NEW QUESTION # 42

What GitHub Copilot pricing plan gives you access to your company's knowledge bases?

- A. GitHub Copilot Business
- B. GitHub Copilot Enterprise
- C. GitHub Copilot Professional
- D. GitHub Copilot Individual

Answer: B

Explanation:

GitHub Copilot Enterprise provides access to your company's knowledge bases, enabling the tool to provide contextually relevant suggestions based on your organization's specific documentation and code.

Reference: GitHub Copilot Enterprise pricing and features.

NEW QUESTION # 43

What caution should developers exercise when using GitHub Copilot for assistance with mathematical computations?

- A. GitHub Copilot's reliance on pattern-based responses without verifying computation accuracy.
- B. GitHub Copilot's automatic update of outdated mathematical formulas to modern standards.
- C. GitHub Copilot's capability to optimize complex mathematical algorithms beyond manual coding.
- D. GitHub Copilot's ability to execute and verify mathematical results in real-time.

Answer: A

Explanation:

"Copilot's responses are generated based on patterns in training data and are not guaranteed to be mathematically accurate.

Developers must verify calculations independently." This shows that Copilot cannot guarantee correctness in math and relies on patterns, making option C correct.

References: GitHub Copilot responsible use documentation.

NEW QUESTION # 44

Which of the following scenarios best describes the intended use of GitHub Copilot Chat as a tool?

- A. A tool solely designed for debugging and error correction.
- B. A complete replacement for developers generating code.
- **C. A productivity tool that provides suggestions, but relying on human judgment.**
- D. A solution for software development, requiring no additional input or oversight.

Answer: C

Explanation:

GitHub Copilot Chat is designed to be a productivity enhancer, not a replacement for human developers. It provides suggestions and assists with coding tasks, but the final decision and validation always rest with the developer. Copilot Chat is meant to augment the developer's workflow, making it faster and more efficient, but it does not remove the need for human oversight and judgment.

Reference: GitHub Copilot official documentation on the tool's purpose and usage.

NEW QUESTION # 45

What is the best way to share feedback about GitHub Copilot Chat when using it on GitHub Mobile?

- A. The feedback section on the GitHub website.
- **B. Use the emojis in the Copilot Chat interface.**
- C. By tweeting at GitHub's official X (Twitter) account.
- D. The Settings menu in the GitHub Mobile app.

Answer: B

Explanation:

"On GitHub Mobile, you can use emojis in the Copilot Chat interface to provide quick feedback on the responses." This makes option A correct.

References: GitHub Copilot Mobile documentation.

NEW QUESTION # 46

What is a likely effect of GitHub Copilot being trained on commonly used code patterns?

- A. Suggest completely novel projects, while reducing time on a project.
- **B. Suggest code snippets that reflect the most common practices in the training data.**
- C. Suggest homogeneous solutions if provided a diverse data set.
- D. Suggest innovative coding solutions that are not yet popular.

Answer: B

Explanation:

"Because GitHub Copilot is trained on a large amount of publicly available code, it often suggests snippets that reflect common coding practices and idioms." This shows that Copilot reflects the most common practices it has seen in its training data.

References: GitHub Copilot documentation on training and suggestion patterns.

NEW QUESTION # 47

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