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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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.

Microsoft GitHub Copilot Sample Questions (Q45-Q50):

NEW QUESTION # 45

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

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

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 # 46

What reasons could apply if code suggestions are not working in your editor? (Select three.)

- A. Your programming language is not supported
- B. You do not have a valid GitHub Copilot license
- C. You do not have an active internet connection
- D. Your content exclusion is active and blocks the use of GitHub Copilot
- E. You are working in files included in your .gitignore

Answer: A,B,C

Explanation:

Exact extracts:

* "Copilot requires an active internet connection to provide suggestions."

* "Copilot does not support all programming languages."

References: GitHub Copilot troubleshooting documentation.

NEW QUESTION # 47

How can GitHub Copilot assist with code refactoring tasks?

- A. GitHub Copilot can remove unnecessary files from the project directory.
- B. GitHub Copilot can automatically rewrite code to follow best practices.
- C. GitHub Copilot can fix syntax errors without user input.
- D. GitHub Copilot can suggest refactoring improvements for better code quality.

Answer: D

Explanation:

GitHub Copilot can analyze existing code and suggest refactoring improvements to enhance code quality, readability, and maintainability. It can propose changes to improve code structure, reduce complexity, and follow best practices.

NEW QUESTION # 48

What is zero-shot prompting?

- A. Only giving GitHub Copilot a question as a prompt and no examples
- B. Giving as little context to GitHub Copilot as possible
- C. Giving GitHub Copilot examples of the algorithm and outcome you want to use
- D. Telling GitHub Copilot it needs to show only the correct answer
- E. Giving GitHub Copilot examples of the problem you want to solve

Answer: A

Explanation:

Zero-shot prompting involves asking GitHub Copilot a question or giving a task without providing any examples. This relies on the model's pre-existing knowledge to generate a response.

NEW QUESTION # 49

What is zero-shot prompting?

- A. Only giving GitHub Copilot a question as a prompt and no examples
- B. Giving as little context to GitHub Copilot as possible
- C. Giving GitHub Copilot examples of the algorithm and outcome you want to use
- D. Telling GitHub Copilot it needs to show only the correct answer
- E. Giving GitHub Copilot examples of the problem you want to solve

Answer: A

Explanation:

