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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	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	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 5	• 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 6	• 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.

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Microsoft GitHub Copilot Sample Questions (Q39-Q44):

NEW QUESTION # 39

How long does it take content exclusion to add or be updated?

- A. 24 hours
- B. 45 - 60 minutes
- **C. Up to 30 minutes**
- D. 60 - 90 minutes

Answer: C

Explanation:

Content exclusions typically take up to 30 minutes to be added or updated.

Reference: GitHub Copilot content exclusion documentation.

NEW QUESTION # 40

How can you get multiple suggestions from GitHub Copilot?

- **A. By opening the completions panel in your editor**
- B. By asking for multiple suggestions using comments in your code
- C. By using @workspace in the chat window
- D. By using the inline chat functionality with the command 'multiple'

Answer: A

Explanation:

You can get multiple suggestions by opening the completions panel in your editor, which displays alternative code suggestions.

NEW QUESTION # 41

How does GitHub Copilot Chat utilize its training data and external sources to generate responses when answering coding questions?

- A. It primarily relies on the model's training data to generate responses.
- B. It primarily uses search results from Bing to generate responses.
- C. It uses user-provided documentation exclusively to generate responses.
- **D. It combines its training data set, code in user repositories, and external sources like Bing to generate responses.**

Answer: D

Explanation:

GitHub Copilot Chat combines its training data, code from user repositories, and external sources like Bing to generate comprehensive and relevant responses to coding questions.

Reference: GitHub Copilot Chat documentation on data sources.

NEW QUESTION # 42

A team is using GitHub Copilot Individual in their daily development activities. They need to exclude specific files from being used to inform code completion suggestions. How can they achieve this?

- A. Add a .gitignore file to the repo
- B. Use the #file Chat variable to exclude the files
- **C. Upgrade to Copilot Business**
- D. Have an organization owner configure content exclusions
- E. Have a repo administrator configure content exclusions

Answer: C

Explanation:

"Content exclusions are available only with GitHub Copilot Business and Enterprise. Copilot Individual users cannot configure exclusions." This confirms that the only way for the team to achieve exclusions is by upgrading to Copilot Business.

References: GitHub Copilot content exclusions documentation.

NEW QUESTION # 43

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 Individual
- D. GitHub Copilot Professional

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.

NEW QUESTION # 44

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