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## Microsoft GH-300 Exam Syllabus Topics:

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"><li>• 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.</li></ul>   |
| Topic 2 | <ul style="list-style-type: none"><li>• 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.</li></ul> |

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|---------|---|
| Topic 3 | <ul style="list-style-type: none"> <li>• <b>GitHub Copilot Plans and Feature:</b> 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.</li> </ul> |
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Responsible :</b> 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.</li> </ul>  |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Developer Use Cases for AI:</b> 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.</li> </ul>  |
| Topic 6 | <ul style="list-style-type: none"> <li>• <b>Domain 6: Testing with GitHub Copilot:</b> 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.</li> </ul>  |

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### **Microsoft GitHub Copilot Sample Questions (Q40-Q45):**

#### **NEW QUESTION # 40**

How does GitHub Copilot identify matching code and ensure that public code is appropriately handled or blocked? (Each correct answer presents part of the solution. Choose two.)

- A. Using machine learning models trained only on private repositories
- **B. Implementing safeguards to detect and avoid suggesting verbatim snippets from public code**
- C. Reviewing and storing user-specific private repository data for future suggestions
- **D. Filtering out suggestions that match code from public repositories**

**Answer: B,D**

Explanation:

Exact extracts:

\* "GitHub Copilot has a filter to detect code suggestions that match public code on GitHub. When this filter is enabled, Copilot checks suggestions with about 150 characters or more against public code and blocks them if a match is found." References: GitHub Copilot duplication detection and safeguards documentation.

#### **NEW QUESTION # 41**

What is the primary role of the /optimize slash command in Visual Studio?

- A. Summarizes your documentation into more maintainable and readable formats.
- B. Automatically formats the code according to the selected style guide.
- C. Translates code into a more performant language.
- **D. Enhances the performance of the selected code by analyzing its runtime complexity.**

**Answer: D**

Explanation:

The /optimize slash command in Visual Studio enhances the performance of the selected code by analyzing its runtime complexity and suggesting improvements.

#### NEW QUESTION # 42

What are the potential limitations of GitHub Copilot in maintaining existing codebases?

- A. GitHub Copilot's suggestions are always aware of the entire codebase.
- B. GitHub Copilot can independently manage and resolve all merge conflicts in version control.
- **C. GitHub Copilot might not fully understand the context and dependencies within a large codebase.**
- D. GitHub Copilot can refactor and optimize the entire codebase up to 10,000 lines of code.

**Answer: C**

Explanation:

"Copilot may not always understand the full context or complex dependencies in large codebases, and suggestions may require significant review." This proves that the main limitation is a lack of deep awareness of complex or large codebase contexts.

References: GitHub Copilot limitations documentation.

#### NEW QUESTION # 43

What is the process behind identifying public code matches when using a public code filter enabled in GitHub Copilot?

- A. Comparing suggestions against public code using machine learning.
- **B. Running code suggestions through filters designed to detect public code**
- C. Analyzing the context and structure of the code being written
- D. Reviewing the user's browsing history to identify public repositories

**Answer: B**

Explanation:

When the public code filter is enabled, GitHub Copilot runs code suggestions through filters designed to detect matches with publicly available code. This helps prevent the generation of code that might infringe on copyright or licensing agreements.

Reference: GitHub Copilot documentation on public code filtering and licensing.

#### NEW QUESTION # 44

Which principle emphasizes that AI systems should be understandable and provide clear information on how they work?

- A. Fairness
- B. Accountability
- C. Inclusiveness
- **D. Transparency**

**Answer: D**

Explanation:

The principle of transparency emphasizes that AI systems should be understandable and provide clear information about their operations. This ensures that users can understand how the AI arrives at its decisions and suggestions.

Reference: Microsoft's AI principles and ethical guidelines.

#### NEW QUESTION # 45

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