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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• Domain 4: Prompt Crafting and Prompt Engineering This section measures skills of Software Developers and AI Interaction Designers in effectively crafting prompts to optimize Copilot's output. It reviews foundational concepts such as prompt components, the role of language in prompting, zero-shot vs. few-shot prompting, and how chat history influences responses. Best practices and engineering principles for prompt design and training methods are also covered.
Topic 4	• 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.

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Microsoft GitHub Copilot Sample Questions (Q60-Q65):

NEW QUESTION # 60
1.
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- A. The API can track the acceptance rate of code suggestions accepted and used in the organization.
- B. The API can refactor your code to improve productivity.
- C. The API can generate detailed reports on code quality improvements made by GitHub Copilot.
- D. The API can provide feedback on coding style and standards compliance.
- E. The API can provide Copilot Chat specific suggestions acceptance metrics.

Answer: A,E

Explanation:
The GitHub Copilot usage metrics API provides insights into the acceptance rate of code suggestions and Copilot Chat specific suggestions acceptance metrics, helping organizations evaluate its effectiveness.
Reference: GitHub Copilot usage metrics API documentation.

NEW QUESTION # 61
Which of the following describes role prompting?

- A. Describing in your prompt what your role is to get a better suggestion
- B. Tell GitHub Copilot in what tone of voice it should respond
- C. Prompt GitHub Copilot to explain what was the role of a suggestion
- D. Giving GitHub Copilot multiple examples of the form of the data you want to use

Answer: A

Explanation:
Role prompting involves explicitly stating your role or the persona you want GitHub Copilot to adopt within your prompt. This helps Copilot provide more contextually relevant and accurate suggestions. By defining your role (e.g., "As a senior software engineer," "As a technical writer"), you guide Copilot to tailor its responses to align with the expertise and perspective associated with that role. This improves the quality and relevance of the generated code and explanations.

NEW QUESTION # 62
How does GitHub Copilot Chat ensure that a function works correctly?

- A. By automatically writing all the tests for the function.
- B. By executing the test cases to validate the correctness of the code.
- C. By suggesting assertions based on the code's context and semantics.
- D. By writing the implementation code for the function.

Answer: C

Explanation:

GitHub Copilot Chat can suggest assertions based on the code's context and semantics to help developers verify the correctness of their functions. These assertions serve as checks that the function behaves as expected under various conditions.
Reference: GitHub Copilot documentation on testing and code verification.

NEW QUESTION # 63

A social media manager wants to use AI to filter content. How can they promote transparency in the platform's AI operations?

- A. By providing clear explanations about the types of content the AI is designed to filter and how it arrives at its conclusion.
- B. By regularly updating the AI filtering algorithm.
- C. By relying on a well-regarded AI development company.
- D. By focusing on user satisfaction with the content filtering.

Answer: A

Explanation:
Exact extracts:
* "Transparency. AI systems should be understandable."
References: Microsoft Responsible AI guidelines and transparency notes.

NEW QUESTION # 64

Which Microsoft ethical AI principle is aimed at ensuring AI systems treat all people equally?

- A. Fairness
- B. Reliability and Safety
- C. Inclusiveness
- D. Privacy and Security

Answer: A

Explanation:
The principle of fairness ensures that AI systems treat all people equally and avoid discriminatory outcomes.

NEW QUESTION # 65

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