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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"> 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 3	<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 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.

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Microsoft GitHub Copilot Sample Questions (Q18-Q23):

NEW QUESTION # 18

What method can a developer use to generate sample data with GitHub Copilot? (Each correct answer presents part of the solution. Choose two.)

- A. Leveraging GitHub Copilot's ability to independently initiate and manage data storage services.
- B. Utilize GitHub Copilot's capability to directly access and use databases to create sample data.
- C. Utilizing GitHub Copilot's ability to create fictitious information from patterns in training data.
- D. Leveraging GitHub Copilot's suggestions to create data based on API documentation in the repository.

Answer: C,D

Explanation:

GitHub Copilot can generate sample data by creating fictitious information based on patterns in its training data and by using suggestions based on API documentation within the repository.

NEW QUESTION # 19

What are the effects of content exclusions? (Each correct answer presents part of the solution. Choose two.)

- A. The excluded content is not directly available to GitHub Copilot to use as context.
- B. The excluded content is no longer used while debugging the code.
- C. GitHub Copilot suggestions are no longer available in the excluded files.
- D. The IDE will not count coding suggestions in the excluded content.

Answer: A,C

Explanation:

Content exclusions prevent GitHub Copilot from using the excluded content as context and stop suggestions from being generated in those files.

NEW QUESTION # 20

How can GitHub Copilot facilitate a smoother learning experience when diving into a new programming language? (Each correct answer presents part of the solution. Choose two.)

- A. GitHub Copilot's /understand command will help GitHub Copilot to understand code written in a targeted programming language.
- B. GitHub Copilot Chat can provide guidance and support for common coding tasks and challenges in the targeted programming language.
- C. GitHub Copilot can convert comments into code to grasp the syntax and nuances of a new programming language.
- D. GitHub Copilot can provide contextualized code suggestions and answer sources from an organization's documentation.

Answer: B,C

Explanation:

GitHub Copilot helps with learning new languages by providing guidance on common tasks and by converting comments into code, allowing developers to see syntax in action.

NEW QUESTION # 21

What types of prompts or code snippets might be flagged by the GitHub Copilot toxicity filter? (Each correct answer presents part of the solution. Choose two.)

- A. Sexually suggestive or explicit content
- B. Code comments containing strong opinions or criticisms
- C. Code that contains logical errors or produces unexpected results
- D. Hate speech or discriminatory language (e.g., racial slurs, offensive stereotypes)

Answer: A,D

Explanation:

GitHub Copilot includes a toxicity filter to prevent the generation of harmful or inappropriate content. This filter flags prompts or code snippets that contain hate speech, discriminatory language, or sexually suggestive or explicit content. This ensures a safe and respectful coding environment.

Reference: GitHub Copilot documentation on safety and content filtering.

NEW QUESTION # 22

What types of prompts or code snippets might be flagged by the GitHub Copilot toxicity filter? (Each correct answer presents part of the solution. Choose two.)

- A. Sexually suggestive or explicit content
- B. Code comments containing strong opinions or criticisms
- C. Code that contains logical errors or produces unexpected results
- D. Hate speech or discriminatory language (e.g., racial slurs, offensive stereotypes)

Answer: A,D

Explanation:

GitHub Copilot includes a toxicity filter to prevent the generation of harmful or inappropriate content. This filter flags prompts or code snippets that contain hate speech, discriminatory language, or sexually suggestive or explicit content. This ensures a safe and respectful coding environment.

NEW QUESTION # 23

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