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GitHub GitHub-Copilot Exam Syllabus Topics:

Topic	Details
Topic 1	• How GitHub Copilot Works and Handles Data: This section of the exam measures the skills of Data Security Specialists and DevOps Engineers and covers how GitHub Copilot processes data, handles code suggestions and manages privacy concerns. It explains the data pipeline for Copilot's suggestions, how it gathers context, and how prompts are processed through its AI model. The section also discusses the limitations of AI-generated code, the effects of historical data on suggestions, and the role of prompt crafting. Best practices for improving prompt effectiveness and optimizing AI-generated responses are included.
Topic 2	• Responsible AI: This section of the exam measures the skills of AI Ethics Analysts and AI Developers and covers the principles of responsible AI usage, the risks associated with AI, and the limitations of generative AI tools. It includes the importance of validating AI-generated outputs and operating AI systems responsibly. It also explores potential harms such as bias, privacy concerns, and fairness issues, along with methods to mitigate these risks. The ethical considerations of AI development and deployment are also discussed.
Topic 3	• GitHub Copilot Plans and Features This section of the exam measures the skills of Software Engineers and IT Administrators and covers different GitHub Copilot plans, including Individual, Business, and Enterprise editions. It explains the integration of GitHub Copilot within IDEs and discusses key features such as inline chat, multiple suggestions, and exception handling. The section details the policies for managing GitHub Copilot within organizations, including auditing logs and API management. It also highlights advanced functionalities like knowledge bases for improved code quality and best practices for Copilot Chat usage.
Topic 4	• Developer Use Cases for AI: This section of the exam measures skills of Full-Stack Developers and Cloud Engineers and covers how AI enhances developer productivity across various tasks such as learning new programming languages, debugging, writing documentation, and refactoring code. It discusses how GitHub Copilot integrates with the Software Development Lifecycle (SDLC) and its role in modernizing legacy applications. It also highlights the use of AI for personalized responses, sample data generation, and improving overall efficiency in software development.

Topic 5	• Privacy Fundamentals and Context Exclusions: This section of the exam measures skills of Cybersecurity Specialists and Compliance Officers and covers privacy safeguards and content exclusion settings in GitHub Copilot. It explains how Copilot can identify security vulnerabilities, suggest optimizations, and enforce secure coding practices. It also includes details on content ownership, data filtering mechanisms, and exclusion configurations. The section concludes with troubleshooting guidelines for managing context exclusions and ensuring compliance with organizational security policies.
Topic 6	• Prompt Engineering: This section of the exam measures skills of AI Engineers and Software Developers and covers the fundamentals of prompt engineering, including key principles, techniques, and best practices for generating high-quality outputs. It explains different prompting strategies such as zero-shot and few-shot prompting, how context influences AI-generated responses, and the role of structured prompts in guiding Copilot's behavior. It also discusses the prompt lifecycle and ways to enhance model performance through refined input instructions.

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GitHub CopilotCertification Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

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

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

Answer: B,D,E

Explanation:

Without an active internet connection, Copilot cannot reach its service to fetch suggestions.

If you're editing in a language that Copilot doesn't support, it won't produce completions.

An invalid or expired Copilot license will prevent any suggestions from appearing.

NEW QUESTION # 49

What types of content can GitHub Copilot Knowledge Base answer questions about? Each correct answer presents part of the solution. (Choose three.)

- **A. code snippets**
- B. screenshots
- **C. documentation**
- D. compiled binaries
- **E. design patterns**

Answer: A,C,E

Explanation:

Code snippets: The Knowledge Base ingests and indexes your repository's source code so Copilot can answer questions about

specific code examples.

Design patterns: It can surface relevant architectural and design best practices drawn from your team's patterns.

Documentation: It incorporates your project's README, wikis, and other docs to provide contextual answers.

NEW QUESTION # 50

While working in Visual Studio Code, a developer notices inline code suggestions appearing as they type. The suggestions seem to adapt based on comments and previously written code. What does this behavior best describe about GitHub Copilot in the IDE?

- A. Copilot generates suggestions only from previously written code in the current file
- B. Copilot uses pre-written or readymade templates to insert common code blocks
- C. Copilot can only operate through command palette triggers, not inline chat
- **D. Copilot analyzes comments and context to generate real-time code suggestions tailored for your requirements**

Answer: D

Explanation:

GitHub Copilot in IDEs like VS Code works by analyzing the surrounding code and developer comments in real-time. It uses this context to suggest relevant completions, often inline as you type.

Reference:

<https://learn.microsoft.com/en-us/training/modules/introduction-to-github-copilot/3-interacting-with-copilot>

NEW QUESTION # 51

What is zero-shot prompting?

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

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 # 52

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

- A. GitHub Copilot can refactor and optimize the entire codebase up to 10,000 lines of code.
- 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's suggestions are always aware of the entire codebase.

Answer: C

Explanation:

GitHub Copilot operates within a limited context window and may not capture all dependencies or the full project structure in a large codebase, so it can misunderstand context and require developer oversight.

NEW QUESTION # 53

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