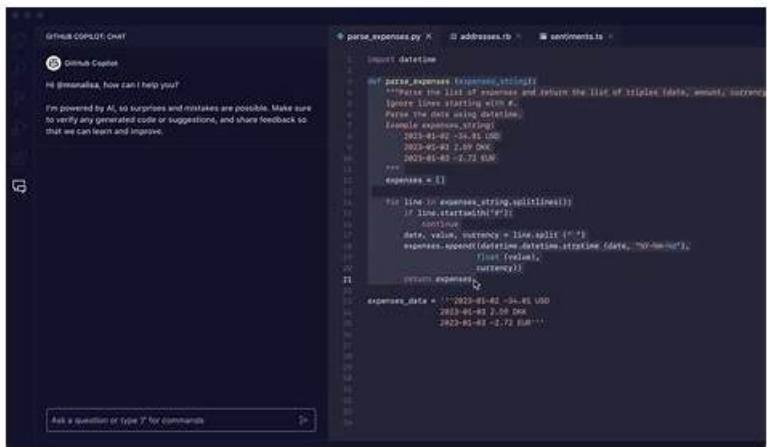


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GitHub GitHub-Copilot Exam Syllabus Topics:

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

Topic 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Testing with GitHub Copilot: This section of the exam measures skills of QA Engineers and Test Automation Specialists and covers AI-assisted testing methodologies, including the generation of unit tests, integration tests, and edge case detection. It explains how GitHub Copilot improves test effectiveness by suggesting relevant assertions and boilerplate test cases. The section also discusses privacy considerations, organizational code suggestion settings, and best practices for configuring GitHub Copilot's testing features.
Topic 4	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

GitHub Copilot Certification Exam Sample Questions (Q51-Q56):

NEW QUESTION # 51

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

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

Answer: A,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 # 52

1.

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

Answer: A,B

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.

NEW QUESTION # 53

What is the correct way to exclude specific files from being used by GitHub Copilot Business during code suggestions?

- A. Rename the files to include the suffix `_no_copilot`.
- **B. Use the GitHub Copilot settings in the user interface to exclude files.**
- C. Add the specific files to a `copilot.ignore` file.
- D. Modify the `.gitignore` file to include the specific files.

Answer: B

Explanation:

The correct way to exclude files is through the GitHub Copilot settings in the user interface, which allows administrators to specify files and directories to be ignored.

NEW QUESTION # 54

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

Answer: B,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 # 55

What GitHub Copilot feature can be configured at the organization level to prevent GitHub Copilot suggesting publicly available code snippets?

- **A. GitHub Copilot duplication detection filter**
- B. GitHub Copilot Chat in the IDE
- C. GitHub Copilot access to Bing
- D. GitHub Copilot Chat in GitHub Mobile

Answer: A

Explanation:

The duplication detection filter can be configured at the organization level to prevent GitHub Copilot from suggesting publicly available code snippets.

NEW QUESTION # 56

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