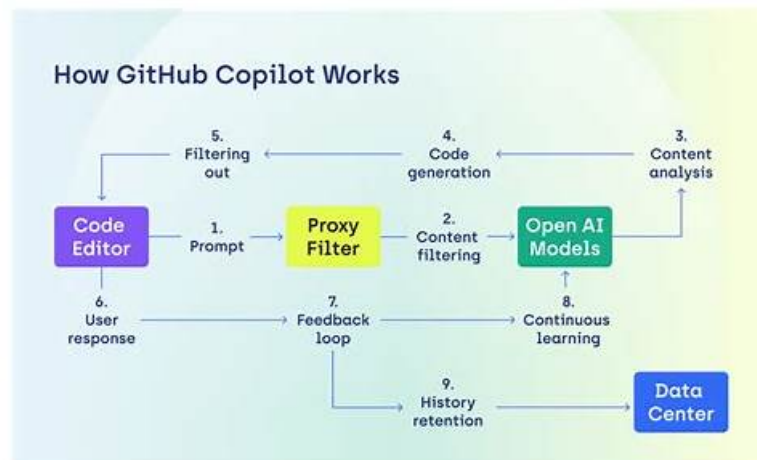


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GitHub GitHub-Copilot Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 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	• 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 5	• 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.

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GitHub Copilot Certification Exam Sample Questions (Q65-Q70):

NEW QUESTION # 65

How can the concept of fairness be integrated into the process of operating an AI tool?

- A. Focusing on collecting large datasets for training will ensure fairness.
- **B. Training AI data and algorithms to be free from biases will ensure fairness.**
- C. Regularly monitoring the AI tool's performance will ensure fairness in its outputs.
- D. Focusing on accessibility will ensure fairness.

Answer: B

Explanation:

Fairness in AI tools is achieved by training the data and algorithms to be free from biases. This ensures that the tool treats all users equitably and avoids discriminatory outcomes.

NEW QUESTION # 66

What should developers consider when relying on GitHub Copilot for generating code that involves statistical analysis?

- A. GitHub Copilot can independently verify the statistical significance of results.
- **B. GitHub Copilot's suggestions are based on statistical trends and may not always apply accurately to specific datasets.**
- C. GitHub Copilot will automatically correct any statistical errors found in the user's initial code.
- D. GitHub Copilot can design new statistical methods that have not been previously documented.

Answer: B

Explanation:

Developers should consider that GitHub Copilot's suggestions are based on statistical trends and may not always be accurate for specific datasets, requiring careful validation.

NEW QUESTION # 67

Which of the following GitHub Copilot Business related activities can be tracked using the organization audit logs?

- A. Changes to content exclusion settings
- B. Accepted chat suggestions
- C. Suggestions blocked by duplication detection filtering
- D. Code suggestions made by GitHub Copilot

Answer: A

NEW QUESTION # 68

An independent contractor develops applications for a variety of different customers. Assuming no concerns from their customers, which GitHub Copilot plan is best suited?

- A. GitHub Copilot Enterprise
- B. GitHub Copilot Business for non-GHE Customers
- C. GitHub Copilot Teams
- D. GitHub Copilot Individual
- E. GitHub Copilot Business

Answer: D

Explanation:

For an independent contractor, GitHub Copilot Individual is the most suitable and cost-effective plan.

NEW QUESTION # 69

What role does chat history play in GitHub Copilot's code suggestions?

- A. Chat history is stored and shared with other users to enhance collaboration.
- B. Chat history is irrelevant to GitHub Copilot and does not affect its functionality.
- C. Chat history is used to train the GitHub Copilot model in real-time.
- D. Chat history provides context to GitHub Copilot, improving the relevance and accuracy of its code suggestions.

Answer: D

Explanation:

Chat history provides valuable context to GitHub Copilot, helping it generate more relevant and accurate code suggestions based on previous interactions and conversations.

NEW QUESTION # 70

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