

## **Github copilot Questions by Github Copilot**

### **Domain 1: Responsible AI (7%)**

1. **What is Responsible AI?**
  - a) AI that is always correct
  - b) AI that adheres to ethical guidelines and fairness
  - c) AI that operates without human intervention
  - d) AI that is focused only on profitability
2. **Which principle is critical for Responsible AI?**
  - a) Bias elimination
  - b) High profitability
  - c) Market dominance
  - d) Speed of computation
3. **Responsible AI ensures AI models are:**
  - a) Biased towards a particular group
  - b) Transparent and explainable
  - c) Hidden from users
  - d) Only used in entertainment
4. **Which of the following is not a component of Responsible AI?**
  - a) Fairness
  - b) Accountability
  - c) Transparency
  - d) Exclusivity
5. **Responsible AI practices require:**
  - a) Ignoring privacy concerns
  - b) Continuous monitoring and updating
  - c) Keeping the models static
  - d) Reducing model accuracy for speed
6. **Why is fairness important in AI?**
  - a) To ensure AI is profitable
  - b) To avoid bias and discrimination
  - c) To make AI faster
  - d) To limit AI usage
7. **What role does transparency play in Responsible AI?**
  - a) It hides the AI's decision-making process
  - b) It ensures decisions are understandable
  - c) It increases complexity
  - d) It decreases trust

## **Domain 2: GitHub Copilot Plans and Features (31%)**

- 1. What is GitHub Copilot primarily used for?**
  - a) Project management
  - b) AI-powered code completion
  - c) Bug tracking
  - d) Version control
- 2. Which IDEs support GitHub Copilot?**
  - a) Only Visual Studio Code
  - b) Visual Studio Code, Visual Studio, and JetBrains IDEs
  - c) Only IntelliJ IDEA
  - d) Only Eclipse
- 3. How does GitHub Copilot suggest code?**
  - a) By using predefined templates
  - b) By analyzing the context of your code and using machine learning models
  - c) By searching through Stack Overflow posts
  - d) By randomly generating code snippets
- 4. Which programming languages are supported by GitHub Copilot?**
  - a) Only Python and JavaScript
  - b) Multiple languages including Python, JavaScript, and TypeScript
  - c) Only Java and C++
  - d) Only Ruby and PHP
- 5. What feature allows GitHub Copilot to offer context-aware code suggestions?**
  - a) Static analysis
  - b) Machine learning models
  - c) Manual coding
  - d) Hardcoding suggestions
- 6. GitHub Copilot can be used in:**
  - a) Only personal projects
  - b) Both personal and professional projects
  - c) Only open-source projects
  - d) Only closed-source projects
- 7. How can users provide feedback on GitHub Copilot's suggestions?**
  - a) By modifying the source code
  - b) By accepting or rejecting suggestions and providing feedback
  - c) By emailing support
  - d) By ignoring the suggestions
- 8. Which subscription plans include GitHub Copilot?**
  - a) Free plan only
  - b) Pro, Team, and Enterprise plans
  - c) Only Enterprise plan
  - d) Only Pro plan

9. **What is the primary benefit of using GitHub Copilot?**
- a) Reducing code quality
  - b) Accelerating coding by generating code snippets
  - c) Making coding harder
  - d) Increasing debugging time
10. **GitHub Copilot helps developers by:**
- a) Writing entire projects automatically
  - b) Providing context-based code suggestions and completions
  - c) Debugging code
  - d) Managing version control
11. **Which of the following is not a feature of GitHub Copilot?**
- a) Code completion
  - b) Code review
  - c) Contextual suggestions
  - d) Documentation generation
12. **GitHub Copilot can generate:**
- a) Only comments
  - b) Code snippets, comments, and documentation
  - c) Only function names
  - d) Only variable names
13. **GitHub Copilot's suggestions are based on:**
- a) A fixed set of rules
  - b) Machine learning models trained on public code
  - c) Random guesses
  - d) User's previous projects
14. **Can GitHub Copilot be used for pair programming?**
- a) Yes, it can assist in pair programming sessions
  - b) No, it is only for solo developers
  - c) Yes, but only in specific IDEs
  - d) No, it does not support collaborative coding
15. **What is not required to use GitHub Copilot?**
- a) An active GitHub account
  - b) A supported editor or IDE
  - c) A Copilot subscription
  - d) A specific operating system
16. **How often does GitHub update Copilot's models?**
- a) Weekly
  - b) Periodically, based on improvements and feedback
  - c) Monthly
  - d) Never

17. **GitHub Copilot can help with:**
- a) Writing tests
  - b) Code refactoring
  - c) Both writing tests and code refactoring
  - d) Only documentation
18. **Which organization developed GitHub Copilot?**
- a) Microsoft
  - b) OpenAI in collaboration with GitHub
  - c) Google
  - d) Facebook
19. **What is the primary goal of GitHub Copilot?**
- a) To replace developers
  - b) To assist developers by providing code suggestions
  - c) To manage projects
  - d) To debug code
20. **How can a developer disable GitHub Copilot for a specific project?**
- a) By uninstalling the plugin
  - b) By disabling it in the project settings
  - c) By not writing any code
  - d) By deleting their GitHub account
21. **What should a developer do if they encounter a bug in GitHub Copilot?**
- a) Ignore it
  - b) Report it through the feedback option in the editor
  - c) Fix it themselves
  - d) Stop using Copilot
22. **GitHub Copilot can be customized by:**
- a) Modifying its source code
  - b) Adjusting settings in the editor
  - c) Changing the machine learning model
  - d) Requesting changes from GitHub
23. **How does GitHub Copilot handle deprecated functions?**
- a) It suggests using deprecated functions
  - b) It avoids suggesting deprecated functions and offers alternatives
  - c) It ignores deprecated functions
  - d) It marks them as errors
24. **GitHub Copilot's code suggestions are based on:**
- a) Publicly available code and user data
  - b) Private user data only
  - c) Random algorithms
  - d) Code snippets from paid services

25. **Which command can be used to accept GitHub Copilot's suggestion in Visual Studio Code?**
- a) Tab
  - b) Ctrl+Enter
  - c) Shift+Tab
  - d) Ctrl+Shift+S

**Domain 3: How GitHub Copilot Works and Handles Data (15%)**

1. **What type of model does GitHub Copilot use?**
  - a) Decision trees
  - b) Neural networks
  - c) Support vector machines
  - d) K-nearest neighbors
2. **GitHub Copilot's model was trained using:**
  - a) GitHub's entire private repository data
  - b) Public code repositories and other open-source projects
  - c) Data from social media
  - d) Proprietary algorithms only
3. **How does GitHub Copilot ensure the privacy of user's code?**
  - a) By anonymizing and aggregating data
  - b) By sharing it with third parties
  - c) By storing it in unprotected servers
  - d) By ignoring privacy concerns
4. **What action can users take if they do not want their code to be used for training GitHub Copilot models?**
  - a) They can opt out of data sharing
  - b) They cannot take any action
  - c) They can delete their repositories
  - d) They can stop using GitHub
5. **How frequently is the data used by GitHub Copilot updated?**
  - a) Daily
  - b) Periodically, based on new public code contributions
  - c) Never
  - d) Every hour
6. **What is the primary source of data for training GitHub Copilot?**
  - a) Proprietary datasets
  - b) Publicly available code repositories
  - c) User's private code
  - d) Encrypted data from various sources
7. **GitHub Copilot handles user data by:**
  - a) Storing it indefinitely
  - b) Using it to improve suggestions and then deleting it
  - c) Sharing it with other users
  - d) Ignoring user data

8. **Can users review how their data is used by GitHub Copilot?**
  - a) Yes, through GitHub's privacy policy and settings
  - b) No, it is not transparent
  - c) Only by contacting support
  - d) Only by reading code
9. **GitHub Copilot's suggestions are generated by:**
  - a) Manually curated code snippets
  - b) Machine learning models analyzing the context of the code
  - c) Random text generation
  - d) Predefined templates
10. **How does GitHub Copilot handle sensitive information in code?**
  - a) It anonymizes and encrypts all sensitive data
  - b) It does not identify sensitive information
  - c) It automatically removes sensitive data
  - d) It stores sensitive data for future use

#### **Domain 4: Prompt Crafting and Prompt Engineering (9%)**

1. **What is prompt engineering in the context of GitHub Copilot?**
  - a) Writing prompts for user surveys
  - b) Crafting inputs to get desired code suggestions from Copilot
  - c) Designing UI prompts
  - d) Debugging code
2. **Effective prompt crafting involves:**
  - a) Writing vague descriptions
  - b) Providing clear and specific instructions
  - c) Using only generic terms
  - d) Ignoring the context
3. **What is a common practice to improve GitHub Copilot's suggestions?**
  - a) Using long and complex prompts
  - b) Using clear, concise, and context-rich prompts
  - c) Rewriting code manually
  - d) Avoiding comments
4. **Why is context important in prompt crafting for GitHub Copilot?**
  - a) It helps Copilot generate relevant and accurate suggestions
  - b) It makes the code longer
  - c) It confuses the AI
  - d) It is not important
5. **Which of the following is an example of a good prompt for GitHub Copilot?**
  - a) "Write some code."
  - b) "Create a function that sorts an array of integers in ascending order."
  - c) "Do something."
  - d) "Generate random text."

6. **What should be included in a prompt to get the best results from GitHub Copilot?**
  - a) Specific task description and relevant context
  - b) Only the task description
  - c) Irrelevant information
  - d) Random code snippets
7. **How can a developer improve the quality of code suggestions from GitHub Copilot?**
  - a) By refining the prompt with more details and context
  - b) By using Copilot without any prompts
  - c) By ignoring Copilot's suggestions
  - d) By disabling Copilot

#### **Domain 5: Developer Use Cases for AI (14%)**

1. **Which developer task can AI, like GitHub Copilot, assist with?**
  - a) Writing documentation
  - b) Generating code snippets
  - c) Debugging code
  - d) All of the above
2. **AI tools like GitHub Copilot are beneficial for:**
  - a) Reducing time spent on repetitive coding tasks
  - b) Replacing developers
  - c) Increasing coding errors
  - d) Making coding harder
3. **How can AI assist in code reviews?**
  - a) By automatically accepting all code
  - b) By identifying potential issues and suggesting improvements
  - c) By ignoring the code
  - d) By replacing the reviewer
4. **Which of the following is a use case for AI in software development?**
  - a) Code generation
  - b) Test case creation
  - c) Code refactoring
  - d) All of the above
5. **AI can help developers by:**
  - a) Writing entire applications without any input
  - b) Providing suggestions and automating repetitive tasks
  - c) Ignoring user input
  - d) Increasing the workload
6. **What is an example of AI improving developer productivity?**
  - a) Writing boilerplate code automatically
  - b) Making developers write more code
  - c) Removing all comments
  - d) Ignoring best practices

7. **AI-driven code suggestions are useful for:**

- a) Experienced developers only
- b) Both novice and experienced developers
- c) Only for specific languages
- d) Non-developers

**Domain 6: Testing with GitHub Copilot (9%)**

1. **How can GitHub Copilot assist with testing?**

- a) By generating test cases based on code
- b) By ignoring tests
- c) By deleting existing tests
- d) By writing incorrect tests

2. **What is a benefit of using GitHub Copilot for writing tests?**

- a) Increased test coverage
- b) Decreased accuracy
- c) Slower development process
- d) Ignoring edge cases

3. **GitHub Copilot can help in testing by:**

- a) Generating boilerplate test code
- b) Ignoring test frameworks
- c) Removing existing tests
- d) Adding bugs to the code

**Domain 7: Privacy Fundamentals and Context Exclusions (15%)**

1. **What is a key aspect of privacy when using AI tools like GitHub Copilot?**

- a) Sharing all code with third parties
- b) Protecting user data and ensuring it is not misused
- c) Ignoring user privacy
- d) Storing data indefinitely

**Answers**

1. b	5. b	16. b	2. b	3. b	7. b
2. a	6. b	17. c	3. a	4. a	1. a
3. b	7. b	18. b	4. a	5. b	2. a
4. d	8. b	19. b	5. b	6. a	3. a
5. b	9. b	20. b	6. b	7. a	1. b
6. b	10. b	21. b	7. b	1. d	
7. b	11. b	22. b	8. a	2. a	
1. b	12. b	23. b	9. b	3. b	
2. b	13. b	24. a	10. a	4. d	
3. b	14. a	25. a	1. b	5. b	
4. b	15. d	1. b	2. b	6. a	



**Refer this Github Copilot chat for Explanation for Each question**

**Link :** <https://github.com/copilot/share/0037010a-4ba4-8805-b850-d208406661fb>