Leveraging Al as a Coding Assistant

Available Al Coding Assistants

- GitHub Copilot https://copilot.github.com/
- Tabnine https://www.tabnine.com/

What is Al Coding Assistant?

- Coding assistants are tools that help developers write code faster and more efficiently.
- They are powered by AI and machine learning.
- It suggests code as you type based on patterns learned from public code repositories.

Benefits of Al Coding Assistant

- Speeds up the coding process
- Provides suggestions for complex code snippets
- Learns from your coding style over time

Limitations of AI Coding Assistant

- It may not always provide the most efficient solution
- It requires careful review as it can suggest incorrect or insecure code

Installation of GitHub Copilot

- 1. Open Visual Studio Code.
- 2. Go to the Extensions view (Ctrl+Shift+X).
- 3. Search for 'GitHub Copilot' in the marketplace.
- 4. Click on the install button.

Using GitHub Copilot

- 1. Once installed, GitHub Copilot automatically suggests completions as you type.
- 2. To accept a suggestion, simply press Tab.
- 3. For a list of alternative suggestions, press Ctrl+Enter.

GitHub Copilot requires a GitHub account and Copilot subscription. The suggestions it provides should be reviewed for accuracy and security

Installation of Tabnine

- 1. Open Visual Studio Code.
- 2. Go to the Extensions view (Ctrl+Shift+X).
- 3. Search for 'Tabnine' in the marketplace.
- 4. Click on the install button.
- 5. Create a Tabnine account by following instructions in the extension.

Using Tabnine

- 1. Once installed, Tabnine automatically suggests completions as you type.
- 2. To accept a suggestion, simply press Tab.
- 3. You can also use the comment based completion.

```
// create a fibonacci sequence function that returns an array of n numbers
// and stops the iteration based on the parameters passed to the function
```

References

- 1. https://copilot.github.com/
- 2. https://github.com/features/copilot/
- 3. https://www.tabnine.com/