



Azure Developer Community

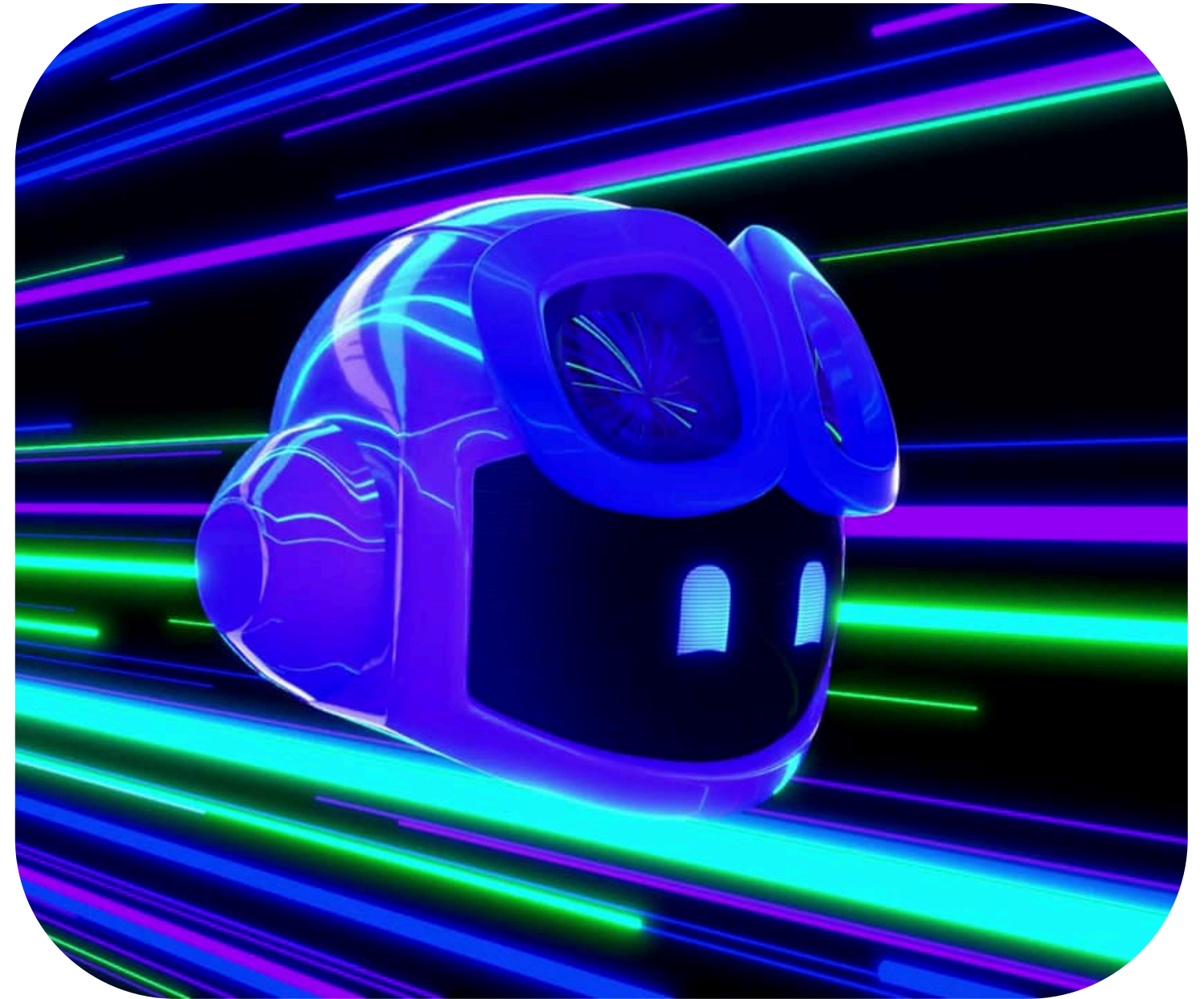
GitHub Copilot for TypeScript

Speaker

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Agenda:

1. Intro to GitHub Copilot
2. Intro to Typescript
3. Using GitHub Copilot with TypeScript
 - Use Cases
 - smart code suggestions
 - error prevention
 - faster development
 - Build up something
4. Conclusion



Intro To GitHub Copilot:

GitHub Copilot is an **AI-powered code** assistant developed by **Microsoft, GitHub, and OpenAI**. It helps developers by **suggesting code in real-time** as they type, working seamlessly with editors like VS Code.

Key Features:

1. **Code Suggestions:** Suggest entire lines or functions.
2. **Context-Aware:** Understand your project and language.
3. **Supports Many Languages:** Works with JavaScript, Python, C++ etc.

Why Use GitHub Copilot?

1. **Boost Productivity:** Speeds up coding by reducing repetitive tasks.
2. **Learn Faster:** Helps explore new coding patterns and libraries.
3. **Error Reduction:** Suggests correct syntax, reducing errors.



Get Idea of GitHub Copilot via VS Code:

Intro To TypeScript:

TypeScript is a **superset of JavaScript** that adds static typing, making **catching errors during compile time** easier. It compiles to JavaScript and works wherever JavaScript runs.

Key Features:

1. **Static Typing:** Helps prevent runtime errors by catching issues early.
2. **Better Tooling:** Provides code hints, and autocompletion.
3. **Scalable:** Ideal for managing large, complex projects.





Why Use It?



1. **Fewer Bugs:** Detects errors before running the code.
2. **Improved Readability:** Clearer code with explicit types.
3. **Better Collaboration:** Easier for teams to maintain and understand.



Let's Code

Conclusion:

TypeScript enhances JavaScript by **adding static typing** , improving code quality, and **reducing errors**, making it perfect for **larger, scalable projects**. It boosts productivity through better tooling , **clearer code** , and easier collaboration .

GitHub Copilot is an **AI-powered assistant**  that speeds up coding by providing **real-time suggestions**, helping developers **code faster** and more efficiently .

 **IN A NUTSHELL:** Combine the power of **TypeScript** and **GitHub Copilot** to create robust, error-free applications with speed and confidence! 