**AI TOOLS FOR CODE GENERATON**

1. [GitHub Copilot](https://www.geeksforgeeks.org/best-ai-code-generators/#1-github-copilot)
2. ChatGPT
3. [Replit GhostWriter](https://www.geeksforgeeks.org/best-ai-code-generators/#2-replit-ghostwriter)
4. [Amazon CodeWhisperer](https://www.geeksforgeeks.org/best-ai-code-generators/#3-amazon-codewhisperer)
5. [Code by Sourcegraph](https://www.geeksforgeeks.org/best-ai-code-generators/#4-code-by-sourcegraph)
6. [Tabnine](https://www.geeksforgeeks.org/best-ai-code-generators/#5-tabnine)
7. Google Bard
8. [Codeium](https://www.geeksforgeeks.org/best-ai-code-generators/#8-codeium)
9. [Mutable AI](https://www.geeksforgeeks.org/best-ai-code-generators/#6-mutable-ai)
10. GPT Pilot
11. BlackBox
12. [AskCodi](https://www.geeksforgeeks.org/best-ai-code-generators/#7-askcodi)
13. [CodePal](https://www.geeksforgeeks.org/best-ai-code-generators/#9-codepal)
14. [AI2sql](https://www.geeksforgeeks.org/best-ai-code-generators/#10-ai2sql)
15. OpenAI Codex
16. CodeT5
17. Polycoder
18. Seek
19. Durable
20. Mintlify
21. Stenography
22. Debuild
23. Codiga
24. AlphaCode
25. Deepcode
26. AIXcoder
27. Ponicode
28. [IBM watsonx Code Assistant for Z](https://www.trustradius.com/products/ibm-watsonx-code-assistant-for-z/reviews)
29. [Serenade.ai](https://www.trustradius.com/products/serenade-ai/reviews)
30. Snyk
31. Visual Studio IntelliCode
32. Smol

**GitHub Copilot** is an AI-powered coding assistant developed collaboratively by GitHub and OpenAI. It’s built on the foundation of the GPT (Generative Pre-trained Transformer) technology, which enables it to understand natural language descriptions and generate code based on context.

Unlike traditional code autocomplete tools (such as those found in common code editors like VSCode), Copilot goes beyond simple suggestions by offering complete lines, functions, or even entire code blocks based on your coding context and intentions.

**Supported Languages and IDEs**

GitHub Copilot supports a wide range of programming languages, including [JavaScript](https://www.codecademy.com/learn/introduction-to-javascript), [Python](https://www.codecademy.com/learn/learn-python-3), [Ruby](https://www.codecademy.com/learn/learn-ruby), [Go](https://www.codecademy.com/learn/learn-go), and more. It is designed to cater to the diverse needs of developers across various technology stacks.

It’s compatible with popular Integrated Development Environments (IDEs) such as Visual Studio Code (VS Code). This means we can seamlessly integrate Copilot into our preferred development environment, enhancing our coding experience.

**ChatGPT**, short for Chat Generative Pre-trained Transformer, is a conversational AI system developed by OpenAI, a leading artificial intelligence research company. ChatGPT facilitates natural conversations between humans and the bot.

ChatGPT is built on top of OpenAI’s foundational large language models (LLMs) like GPT-4 (Generative Pre-trained Transformer) and its predecessors. It uses advanced natural language processing (NLP) algorithms to generate human-like responses to user inputs and can hold conversations on a wide range of topics.

Code importance

Chat GPT is a powerful tool that can assist in the coding process. By using machine learning algorithms to analyze and understand code snippets, Chat GPT can generate accurate and efficient code solutions. While it does not replace human programmers, it can significantly improve productivity and coding accuracy.

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| **AI Tool** | **Company** | **Main Functionality** | **Supported Languages** | **Integration** | **Pricing Model** |
| GitHub Copilot | GitHub | Code autocompletion, suggesting code snippets | Multiple | Integrated with VS Code, GitHub | Subscription |
| ChatGPT | OpenAI | Natural language understanding, code generation | Multiple | API, Integration with various platforms | API usage-based |
| Replit GhostWriter | Replit | AI-powered code completion and suggestions | Multiple | Integrated with Replit IDE | Subscription, Freemium |
| Amazon CodeWhisperer | Amazon | Code completion, debugging assistance | Multiple | Integration with AWS | AWS Usage-based |
| Code by Sourcegraph | Sourcegraph | Code autocompletion, suggesting code snippets | Multiple | Integrated with Sourcegraph IDE | Subscription, Freemium |
| Tabnine | TabNine | AI-driven code completion and suggesting snippets | Multiple | Integrated with various IDEs | Freemium, Subscription |
| Google Bard | Google | AI-powered code suggestion and completion | Multiple | TBD | TBD |
| Codeium | Codeium | AI-driven code completion and suggesting snippets | Multiple | TBD | TBD |