

## AI Tools Handbook for Hackémon CTF

Below is a curated list of beginner-friendly AI tools to support participants during the Hackémon CTF competition. Each tool has been selected for its ease of use, versatility, and relevance to the CTF challenge domains.

---

### 1. ChatGPT (OpenAI)

- **Use Case:** Coding help, debugging, and logic building
  - **Benefits:** Supports multiple programming languages and understands context-rich prompts •
- Example Task:** *Write a Python function to check for SQL injection in a login form.*
- 

### 2. Google Gemini

- **Use Case:** Explaining concepts, machine learning fundamentals, creating diagrams
  - **Benefits:** Integrated with Google Search, accepts both text and image inputs
  - **Example Task:** *Explain underfitting and overfitting in ML with examples and graphs.*
- 

### 3. Claude

- **Use Case:** Long-form reasoning, concept breakdowns (e.g., ML pipelines, blockchain logic)
  - **Benefits:** Beginner-friendly, structured, and clear explanations
  - **Example Task:** *Describe how convolution layers work in image classification using a simple analogy.*
- 

### 4. Perplexity AI

- **Use Case:** Factual lookups, summarizing complex tech topics with citations
  - **Benefits:** Offers sourced answers, great for quick understanding with real-world context •
- Example Task:** *What is a re-entrancy attack in Ethereum and how can it be prevented?*
- 

### 5. GitHub Copilot

- **Use Case:** Autocompleting code inside VS Code and helping with syntax
- **Benefits:** Speeds up writing, reduces syntax errors, and acts like an AI coding partner
- **Example Task:** *Begin a function to sort numbers, and let Copilot complete it correctly.*

Perplexity Links:

<https://plex.it/referrals/BUVJ5C34>

(Login with RVCE email ID only)