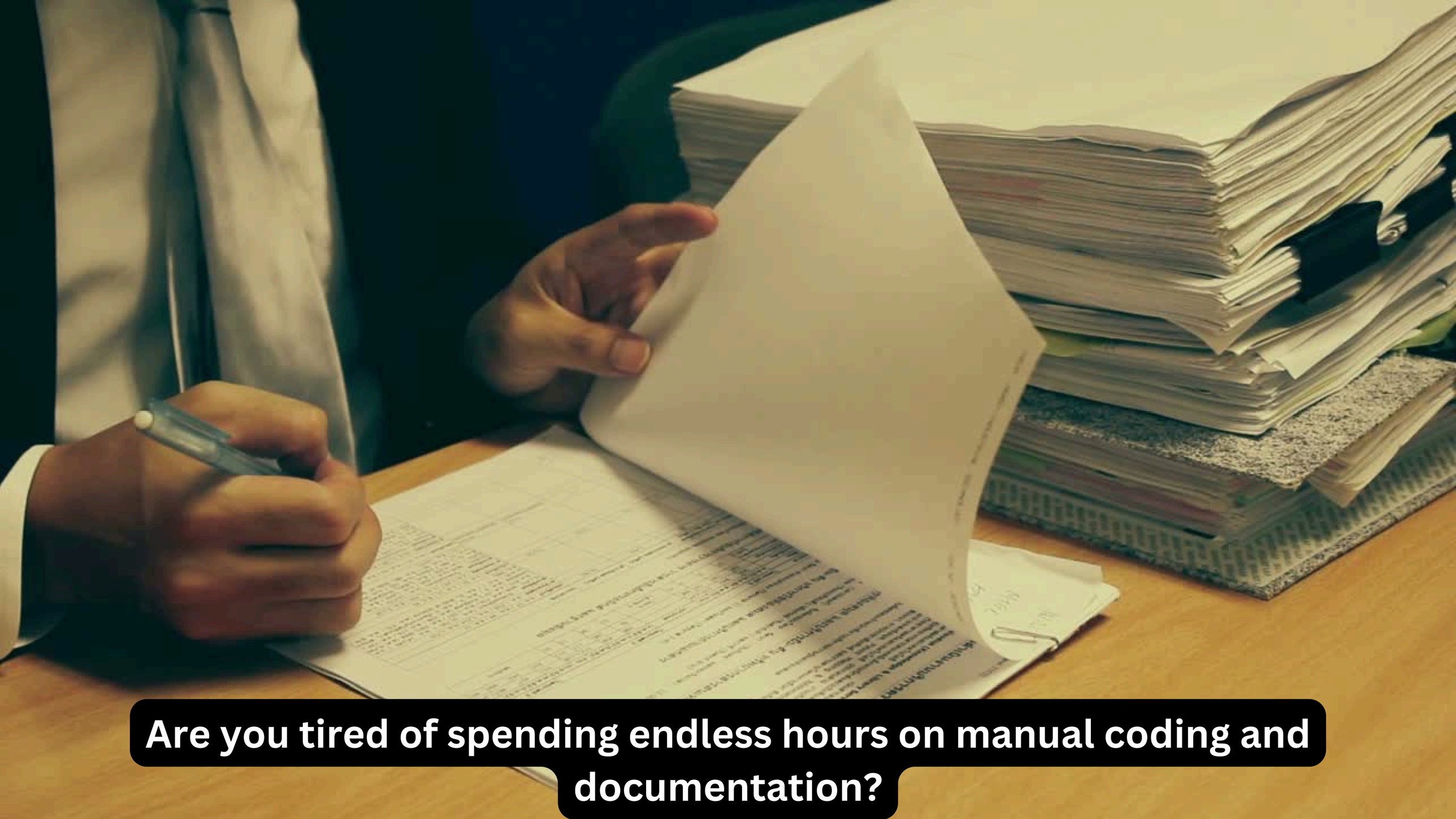
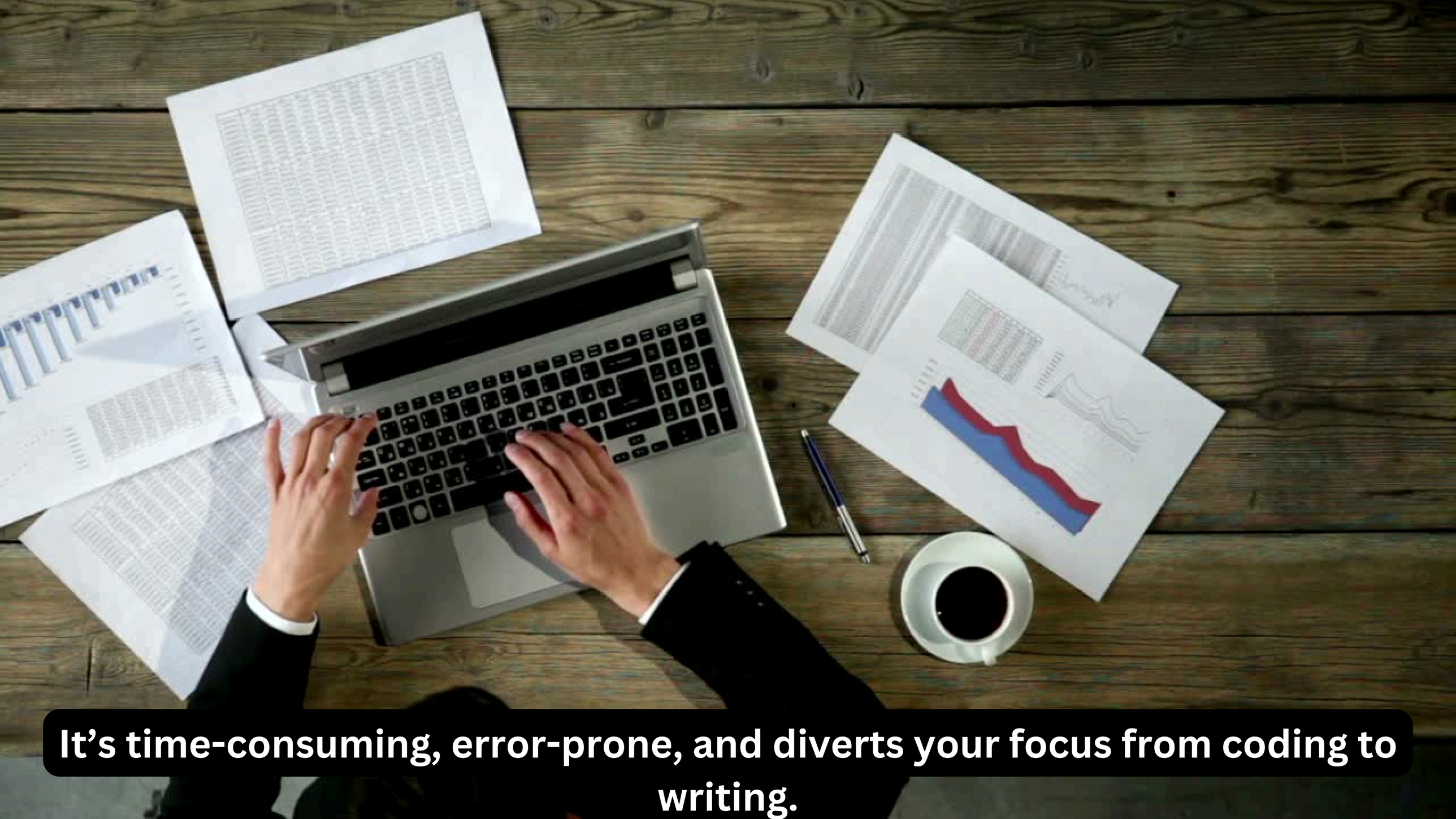

Are you tired of spending endless hours on manual coding and documentation?



It’s time-consuming, error-prone, and diverts your focus from coding to writing.

smartcoder

Clear Code, Clear Docs: Automate workflow with smartcoder

https://lablab.ai/event/codestral-ai-hackathon

Objectives

- Automate the creation of accurate code & detailed documentation for codebases.
- Enhance understanding and maintenance of code, especially for large and open-source projects

Features Overview

01

Code Parsing

Extracts key components

02

Natural Language Generation

Employed Codestral

03

Examples and Usage

Using classes and function effectively

04

Visualization

Enhancing comprehension

Features Overview

05

Code Snippets

Generates code based on natural language descriptions

06

Test Case generation

Provides coverage reports

07

Code reviewer

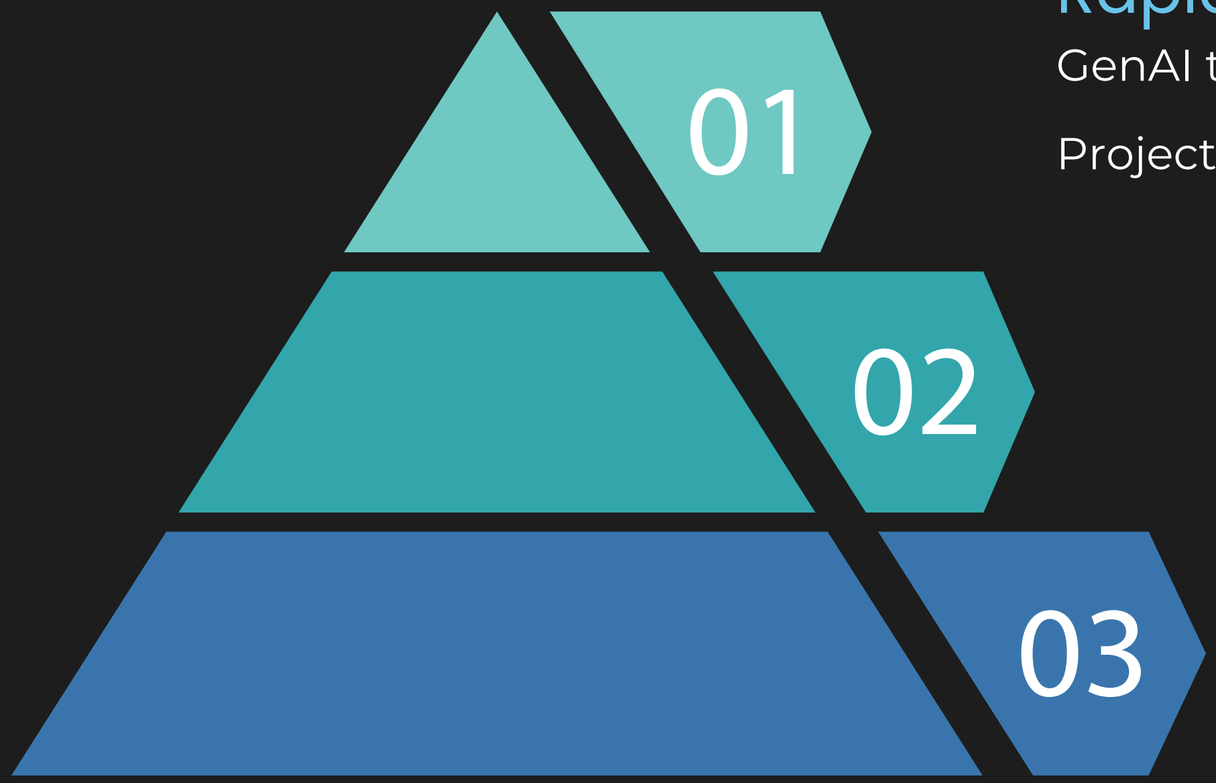
Analyzes code, identify bugs and suggest improvements

08

Documentation Generator

Downloadable comprehensive documentation

Market Value



Rapid Market Expansion

GenAI tools like this valued at $6.6 billion in 2023 &

Projected to reach $51.8 billion by 2030

Significant Investments

Hundreds of millions of dollars allocated annually

Increased Adoption

Growing across industries & ensuring

comprehensive documentation

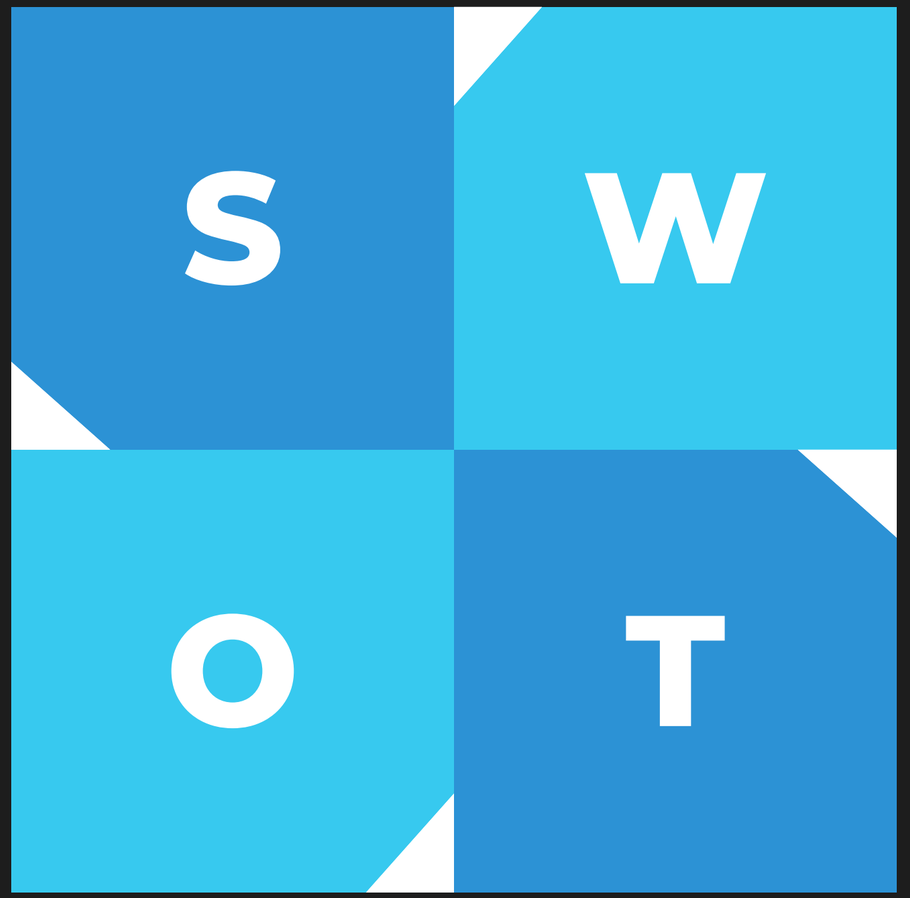
SWOT Analysis

STRENGTHS

- Automation
- Enhanced code quality and reliability

OPPORTUNITIES

- Growing demand
- Increasing complexity
- Expansion into other software development areas



WEAKNESSES

- Dependence on accurate code parsing
- Customization for specific use cases

THREATS

- Rapidly evolving AI and software standards
- Potential resistance by traditional developers

Future Prospects

Visualization

Diagrams, Interactive visualizations for code

Integration

Integration with CI/CD pipelines and IDEs

User Feedback Loop

A robust feedback loop to continuously gather user input and improve the tool

Meet the team

- Tayyaba Tabassum
- Osama Ghaffar
- Sheroz Arshad
- Zeshan Ahmad
- Zartashia Afzal
- Quaid Khalid

DEMO