

Chillax.AI

Stop Stressing, Start Understanding

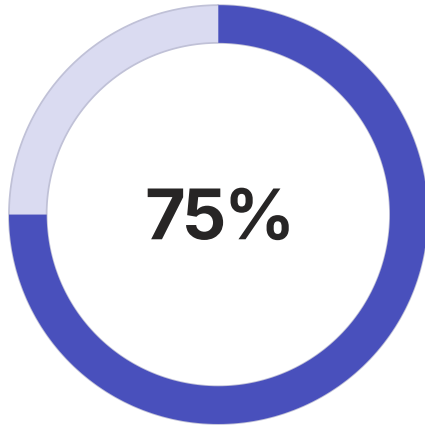
Your offline, AI-powered code companion for untangling legacy systems

📄 ET Gen AI Hackathon — Open Novel Innovation Category | Built for Hackathons 🚀

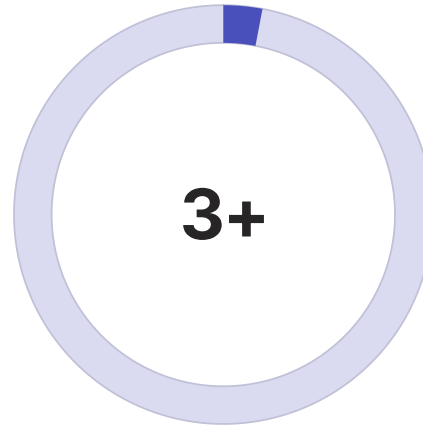
Made with GAMMA

The Problem

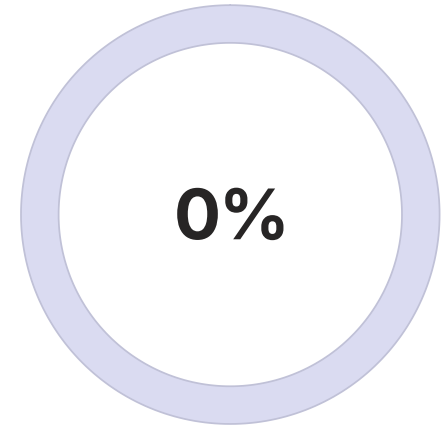
Developers are drowning in code they didn't write.



Time Reading Code
Not writing it



Weeks to Onboard
On legacy systems



Code Leaving Machine
Privacy-first

The Gap

Existing AI tools like GitHub Copilot and ChatGPT require sending proprietary code to external servers — unacceptable for enterprises in finance, healthcare, and defense.

"Enterprise codebases can't afford cloud-based AI assistants"

Tools exist to help developers write faster, but nothing helps them **understand existing code at a system level**.

Our Solution

A standalone desktop IDE combining visual mapping, offline AI, and execution visualization.



Interactive Code Map

Visual graph showing all modules, functions, classes, and their relationships



Offline AI Assistant

LLaMA 3 running locally explains code in plain English with full context



Execution Visualizer

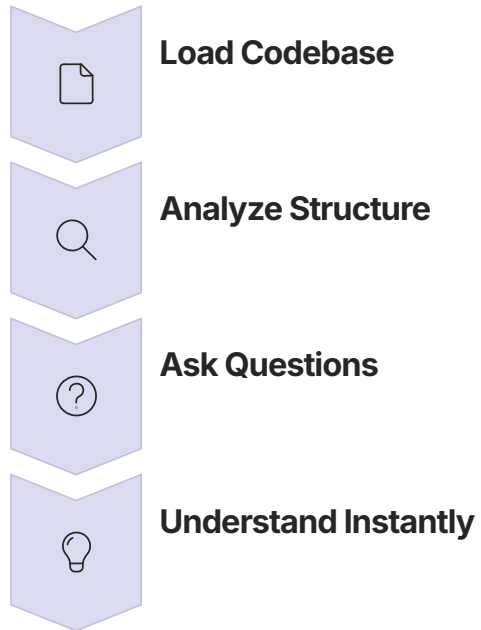
Animated walkthrough showing code flow with playback controls



How It Works

Visual Graph Theory + GenAI

Unlike chatbots that just output text, **Chillax.AI combines visual mapping with AI comprehension** — we show code execution visually.



❑ Success metric: **60% reduction in code comprehension time**

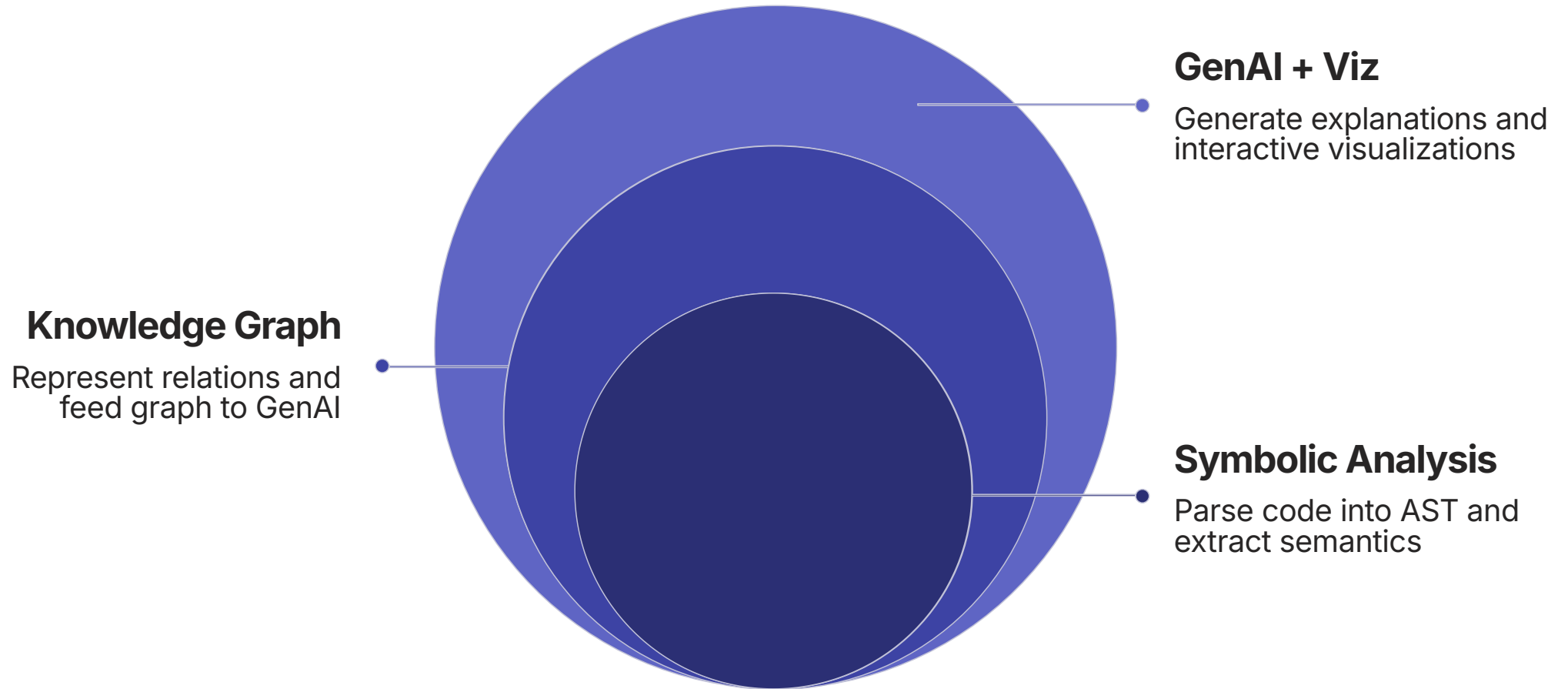
Privacy-First Architecture

All code analysis and AI processing happens **100% offline** on the developer's local machine.

Zero data leaves the machine. No cloud dependencies. No proprietary code exposed.

Technical Architecture

Three-Layer Neuro-Symbolic Approach



Tech Stack: Electron, React 18, Vite, Monaco Editor, FastAPI, Python AST, Ollama, React Flow, Custom dark theme CSS

Made with **GAMMA**

Validation Strategy

Three complementary approaches to prove effectiveness.

1 Accuracy Testing

Compare AI-generated explanations against ground-truth AST dependency graphs

2 Performance Benchmarking

Measure inference latency targeting sub-5-second responses on standard laptops

3 User Study

Simulated onboarding tasks measuring time-to-discovery with vs. without Chillax.AI

Target Users & Use Cases



Privacy-Sensitive Industries

Banking, healthcare, and defense teams working with proprietary, classified, or regulated codebases that cannot leave local machines.



Legacy System Maintainers

Engineers supporting decade-old codebases that lack documentation but power critical business operations.



Computer Science Educators

Professors and TAs using visualization to teach students how complex systems actually work.

Use Case Scenario

A developer joins a team with a massive, undocumented 10-year-old Python codebase. They open **Chillax.AI**, visualize the architecture as an interactive graph, and ask "How does the payment module work?" — **all without data leaving their machine.**



Why Chillax.AI?

Neuro-Symbolic Innovation

Combine deterministic AST parsing with probabilistic LLMs to reduce hallucinations and increase accuracy.

Truly Offline by Design

Privacy and security aren't features — they're fundamental to our architecture. No cloud dependencies.

Visual Execution Flow

Go beyond text explanations with animated code execution visualization showing exactly how systems work.

Language-Agnostic Future

Python-first, but architecture adapts to JavaScript, Java, C++, Go, and more. Universal legacy platform.

Novelty: Visual Graph Theory + GenAI

This hybrid approach allows us to show code execution visually within a unified interface where developers simultaneously explore architecture graphs, engage the AI assistant, and watch animated execution traces — all on their local machine.

📄 GitHub: [your-github-link] | Team: [your-team-name] | Contact: [your-email]

Take the Stress Out of Legacy Code

Chillax.AI

Built for the ET Gen AI Hackathon — Open Innovation Category

[View on GitHub](#)[Watch Demo](#)

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