IntelliAudit

Evaluate Smart Contracts on Security Vulnerabilities

Idea

✅ Evaluate code on security vulnerabilities using LLMs

✅ Upgrade static code analysis with LLM

✅ Problem: security audits are expensive

✅ Problem: people can overlook vulnerabilities
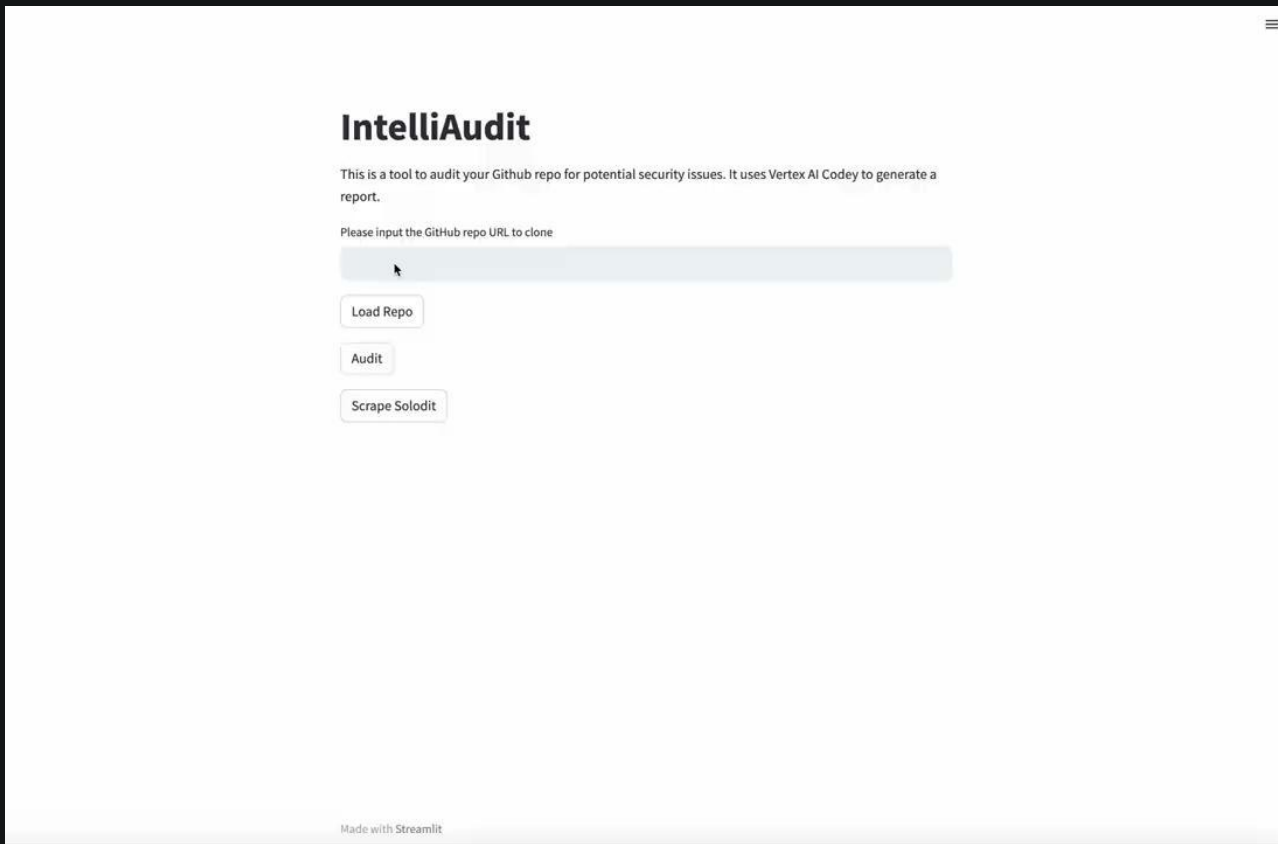
✅ Impact of a security issue can be very serious

MVP

✅ Focus on smart contracts

✅ Use known static code analyzer (slither)

✅ Evaluate using vulnerable smart contracts

Product

⚠️ Pulls GitHub repo

⚠️ Installs dependencies (if any)

⚠️ Loads project or individual smart contract

⚠️ Analyzes data with Slither

⚠️ Uses langchain agent to determine vulnerabilities

Demo

Lessons learned

❓ Vertex AI models don't work great as agents (GPT-4 is a lot better)

❓ Fine-tuning models was not possible

❓ Missing OpenAI functions

Next goals

✅ Support other programming

languages

✅ Support more complex projects

✅ Improve the agent

✅ Use fine-tuned model