TestMachine

Litepaper

AI

Crypto projects go bankrupt for 3 reasons

Lack of time due to repetitive code reviews.

Lack of speed due to manual contract testing.

Lack of security due to endless tool integrations.

TestMachine eliminates these 3 painful steps by providing a real-time testing and auditing platform powered by AI that does the following:

Eliminating manual code reviews with an on-demand audit powered by AI. This system gives developers the freedom to code while checking for bugs on the fly.

Leveraging industry-standard security tools and proprietary machine learning algorithms to get rid of manual testing. This method removes expensive delays for product launches.

Providing a zero-configuration ecosystem with an intuitive web interface, GitHub integration, and powerful command-line tools that remove the hassle of installing dependencies that can break the code making it unsafe.

3.8 billion dollars were stolen from crypto projects in 2022.

This number shows clear evidence that human audits are not enough and companies have failed to address this issue until now.

However, at the core of TestMachine is the solution to this problem through our novel technology:

The Surfactant Machine Learning System

Surfactant uses novel reinforcement learning techniques to teach artificially intelligent agents to detect and exploit vulnerabilities in a smart contract.

Powered by deep neural networks and trained on high-fidelity blockchain simulations, these agents learn powerful strategies that exploit data oracles, blockchain latency, and complex contract interactions.

In summary, TestMachine combines existing industry-standard tools with novel reinforcement learning approach to smart contract penetration testing and on-demand audit to crypto projects and developers to ensure that contracts are free of known vulnerabilities and optimized for gas consumption.