NIGHTWING

LABELMAKER

Accelerate Reverse Engineering with AI-Driven Precision

LabelMaker revolutionizes reverse engineering for vulnerability research, computer network operations (CNO), and malware analysis by leveraging cutting-edge AI models. This all-in-one solution automates binary behavior identification, labeling, and cross-architecture similarity matching, dramatically reducing manual workload and cognitive load for analysts.

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Featuring AI-powered automation, optimized workflows for static binary analysis, and flexible deployment options, LabelMaker employs state-of-the-art neural networks and fine-tuned large language models to identify known components, uncover underlying behaviors, and provide clear, high-level functional software artifact descriptions.

Advanced Capabilities and Use Cases

LabelMaker's versatile capabilities address a wide range of critical reverse engineering challenges across multiple domains. LabelMaker excels in rapid advanced persistence threat (APT) identification within malware samples, enabling faster threat actor attribution and response. The LabelMaker solution streamlines comprehensive software bill of materials (SBOM) generation, enhancing security audits and compliance processes.

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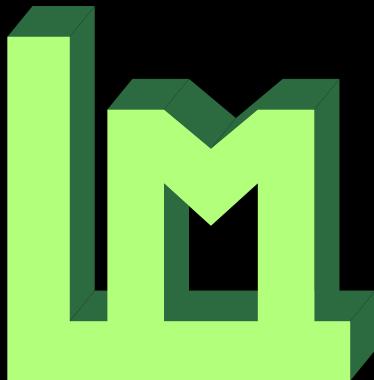
- AI-powered automation of reverse engineering tasks
- Cross-architecture function similarity matching
- Optimized workflow for static binary analysis
- Application programming interface (API)-enabled scalability for large sample sets
- Flexible deployment options (on-premises, cloud, air-gapped networks)

LabelMaker's advanced algorithms are particularly effective in analyzing Internet-of-Things (IoT) and embedded systems with limited debug information, as well as identifying complex code patterns and high-level algorithms in obfuscated or highly optimized code, including cryptographic routines.

Unmatched Value Proposition

LabelMaker offers unique advantages that drive unprecedented value in reverse engineering. Purpose-built for sensitive, air-gapped environments, LabelMaker ensures top-tier performance without compromising security. LabelMaker's centralized architecture significantly reduces total cost of ownership, while optimized models maximize performance in reduced-scale infrastructure. LabelMaker's comprehensive analysis combines insights from multiple bespoke analyses, ensuring thorough and accurate results. With a commitment to continuous evolution, including ongoing improvements in recovery techniques and planned expansions in tool integrations. LabelMaker empowers organizations to dramatically reduce analysis time, improve accuracy, and unlock new possibilities in vulnerability research, CNO, and malware analysis.

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