

OpenAML

An open-source initiative to bring transparency and intelligence to on-chain financial crime detection.

AI Anti Money Laundering





\$45,000,000,000

Estimated Crypto Value Laundered on 2024

Money Laundering Numbers



Money Source



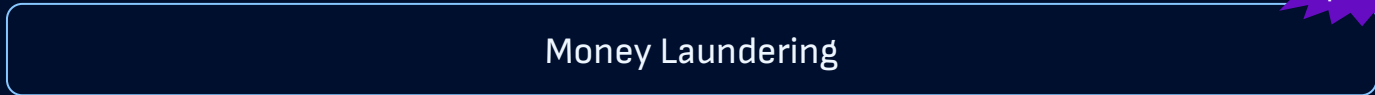
**Sanctions
Evasion**



**Scam and
Fraud**



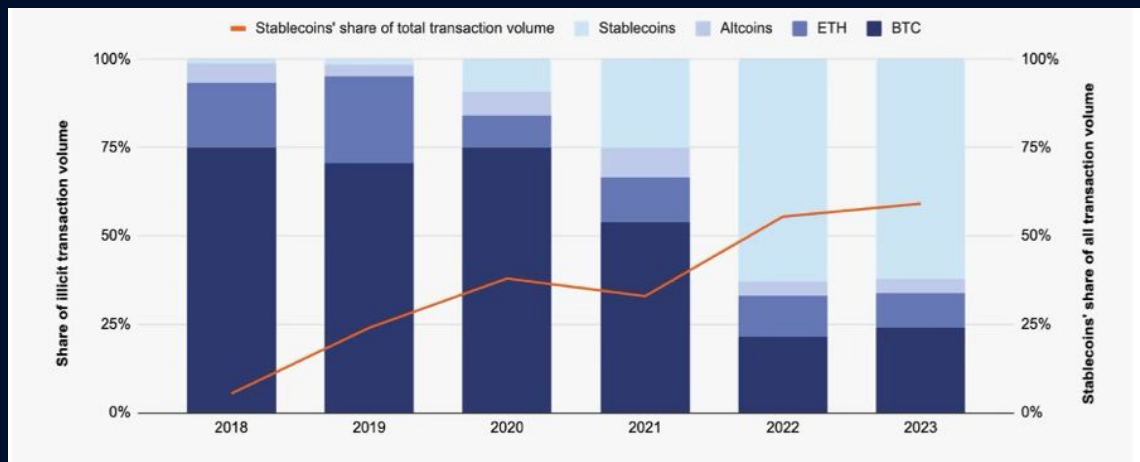
**Stolen
funds**



Money Laundering

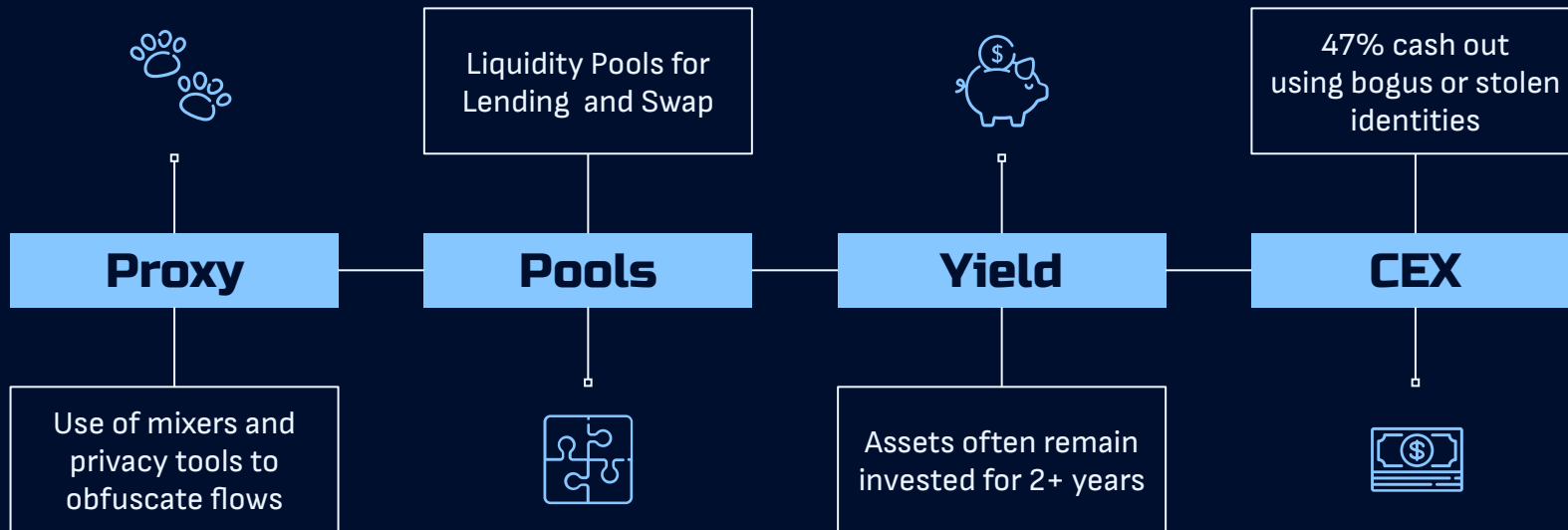
Bybit
\$1.5bn

Stable coin predominance



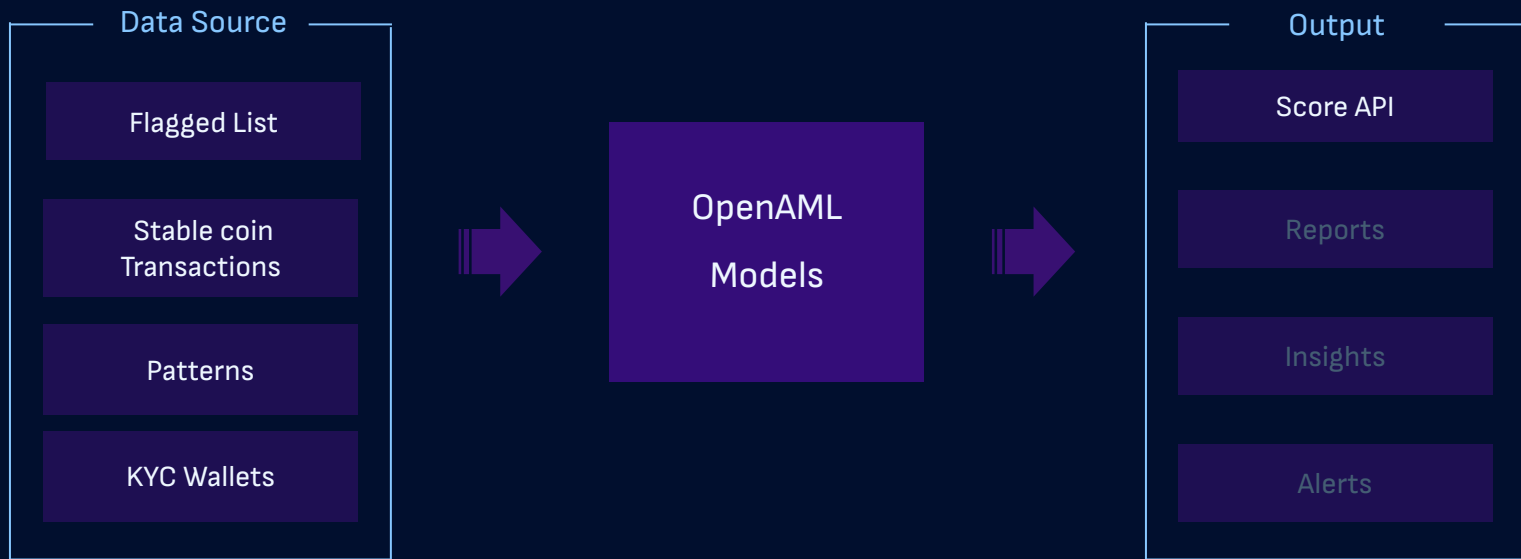
It has become the preferred currency for hacks due to its stability, widespread acceptance across DeFi protocols, strong liquidity, and accessible off-ramp options.

DeFi ecosystem

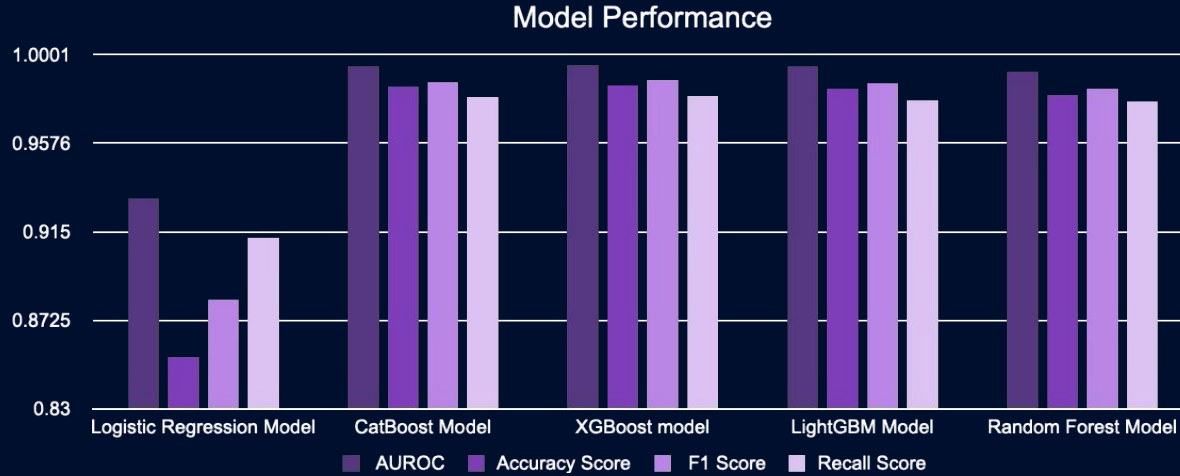


OpenAML Project

1M Daily on chain transactions



Model Performance



OpenAML Dashboard

Sentinel DTCC Hackathon 2025

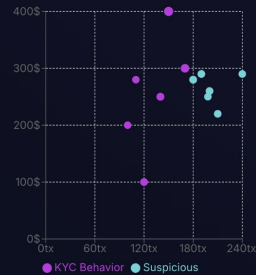
Duke
UNIVERSITY

Wallet clusters

Transactions
958M

Wallets
533k

Scam Reports
34k



Risk Score

Check wallet KYC & Suspicious score

Tokens
<10

KYC Tx
0

Last Activity
124d



Inform an address:

0x1265bc855fd628aff6fed3fe485

Check
wallet

Account Balance

\$2,641.09

No KYC found

Active

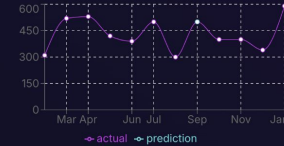
Fraud Flagged

Stablecoins Volumes

Market Cap
\$218.43B

Transfer
\$2.90T

Holders
147.07M



#	Issuer	Mkt Cap	Share
1	Tether	\$140B	63.99% ▲
2	Circle	\$54B	24.91% ▲
1	Sky	\$7M	3.27% ▲
1	Ethena	\$6M	2.76% ▼
1	Binance	\$4.6M	0.84% ▼

API Usage

[https://api.sentinel.com/predict/\[wallet\]](https://api.sentinel.com/predict/[wallet])

RESPONSE

RiskLevel: 0.3, Info: AML_Flagge, Vol: 200k, Transactions: 1200, chain: Ethereum, BnbChain

Roadmap

**Publish
White Paper**

1st
Jun

**Release MVP &
documentation**

1st
Aug

**10 new AI-driven
data features and
Real time API**

1st
Oct

**Slack Channel &
Academic Paper**

1st
Dec



Founder Team



Cartier Huang

Finance & Strategy | M.Eng FinTech, Duke

Former analyst at Goldman Sachs and Taiping Asset Management with experience in asset management, financial reporting, and consulting. Background in corporate finance and international business with cross-cultural leadership experience.

[linkedin.com/in/cartier-huang](https://www.linkedin.com/in/cartier-huang)

Luciano Juvinski

Tech Founder | Blockchain

Seasoned tech entrepreneur and engineer with over a decade of experience on Data projects focused on blockchain, RWA tokenization, and decentralized finance. Deep expertise in full-stack development and smart contracts.

[linkedin.com/in/juvinski](https://www.linkedin.com/in/juvinski)



Yifei Ren

FinTech Engineer | M.Eng FinTech, Duke

Power Trading Intern at TotalEnergies with experience in market risk, equity research, and commodities. CFA Level II & FRM Part I candidate with strong technical skills in Python, R, and data visualization.

[linkedin.com/in/yifeiren888](https://www.linkedin.com/in/yifeiren888)



Haochen Li

AI Engineer | M.Eng AI, Duke

Background in software development and actuarial science. Focused on LLMs, RAG systems, and AI agents. Built transformer-based stock predictors and agentic chatbots using LangGraph. Skilled in Python, PyTorch, Hugging Face, and Pinecone.

[linkedin.com/in/haochen-harry-li](https://www.linkedin.com/in/haochen-harry-li)

Yiqing Liu

AI Researcher | M.Eng AI, Duke

Specializes in large language models (LLMs), retrieval-augmented generation (RAG) and AI agents. Strong background in software engineering and applied AI research.

[linkedin.com/in/yiqing-liu-400800327](https://www.linkedin.com/in/yiqing-liu-400800327)

The background is a dark blue gradient. It features several 3D geometric shapes: a small blue pyramid in the top left, a large blue Penrose triangle in the top right, a blue pyramid in the middle right, a small purple pyramid in the bottom right, and a large blue Penrose triangle in the bottom left.

Thanks!

Any questions?

lhs65@duke.edu

Appendix

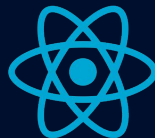
The background is a dark navy blue. Scattered around the central text are various 3D geometric shapes. In the top left, there is a blue triangular prism. Below it, a small blue pyramid. To the left of the center, a purple rectangular prism. In the bottom left, a small blue pyramid. In the center, a blue sphere. Below the sphere, a purple cylinder. To the right of the sphere, a blue cube. In the bottom right, a purple cylinder, a blue cone, and a purple pyramid. In the top right, a purple cylinder and a purple pyramid. At the very bottom right, a dark grey rectangular prism.

Technology



Python

Kylearn, CatBoost, Pandas



Typescript

React, nextjs, recharts

Others: Google BigQuery, AWS, Alchemy and Etherscan

Detailed Roadmap

MVP

20 May - Publish the White Paper

30 Jun - Refactor codebase

30 Jun - Improve data pipeline

1st Aug - New API and web interface

1st Aug - Technical documentation

Improvement

1st Oct - 10 new AI-driven data features

1st Oct - Start the Slack channel

1st Nov - Real time module

1st Dec - Academic paper.

Model Performance

Models	Test Set AUROC	Test Accuracy	Test F1 Score	Test Recall Score
Logistic Regression Model	0.9310	0.8551	0.8827	0.9122
CatBoost Model	0.9945	0.9848	0.9871	0.9799
XGBoost model	0.9952	0.9856	0.9879	0.9803
LightGBM Model	0.9947	0.9841	0.9866	0.9782
Random Forest Model	0.9922	0.9809	0.9839	0.9777

Training Models

