

# **Cyber-Security Internship**

## **(Anirudh Gautam – Intern ID: 163)**

### **Tools' POC**

#### **1. DataMish**

##### **Description**

A real-time analytics platform focused on Bitcoin margin trading, enabling investigators to monitor long and short positions, market sentiments. Also, it monitors behavioral trends within the cryptocurrency ecosystem.

##### **What is the tool about?**

Datamish aggregates and visualizes open long and short margin positions from major crypto exchanges. It's focus remains particularly on Bitfinex, offering in-depth insights into leverage use and informing us about the spectacular psychology and potential market moves.

##### **Key Characteristics / Features**

- Real-time tracking of Bitcoin longs vs shorts
- Visual breakdown of pain points
- Margin data updated live
- Percent changes and trend visualization
- Historical comparison charts
- Simple, web-based portal
- Exportable charts/data
- Focus on sentiment analytics for Bitcoin traders

##### **Types/ Modules Available**

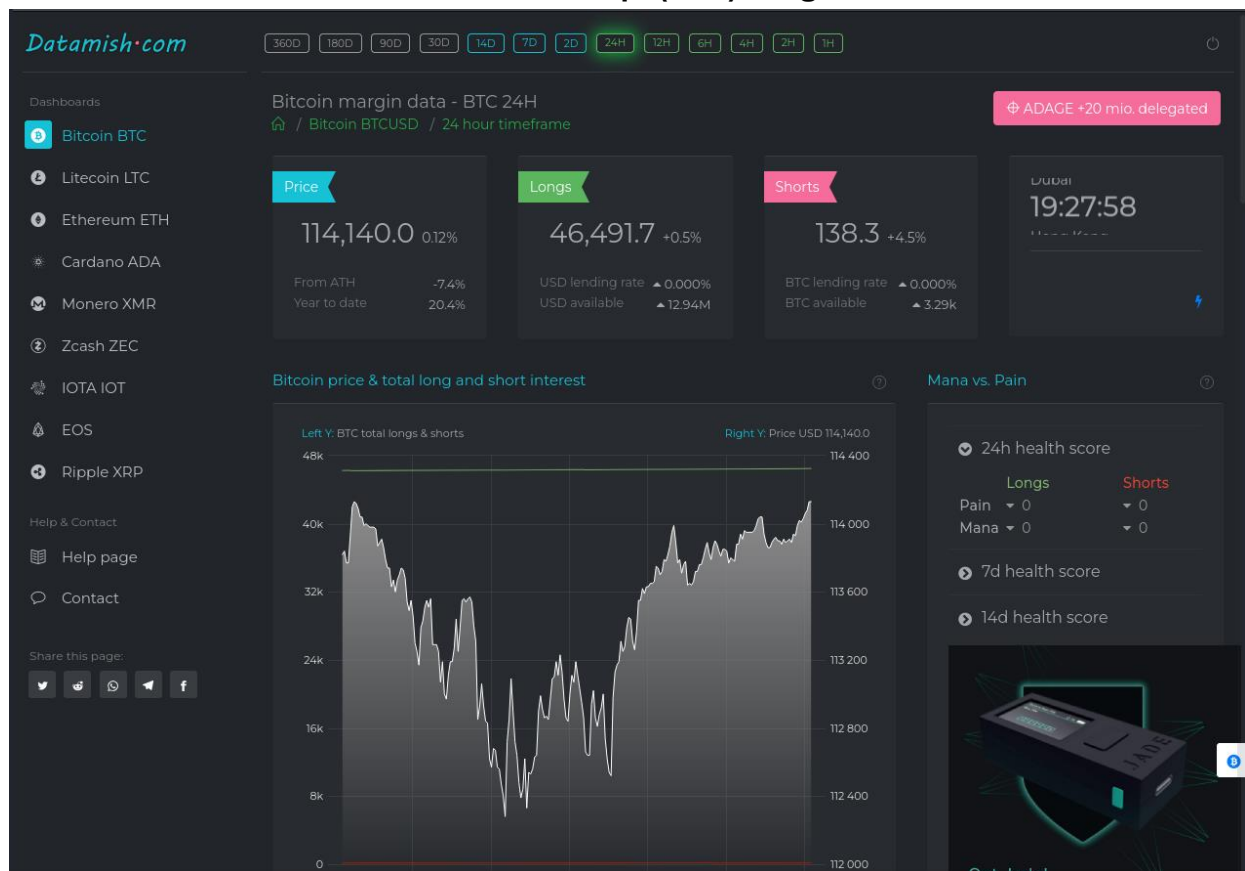
- Margin Position Tracker
- Health Score Analyzer
- Trend Visualization Module

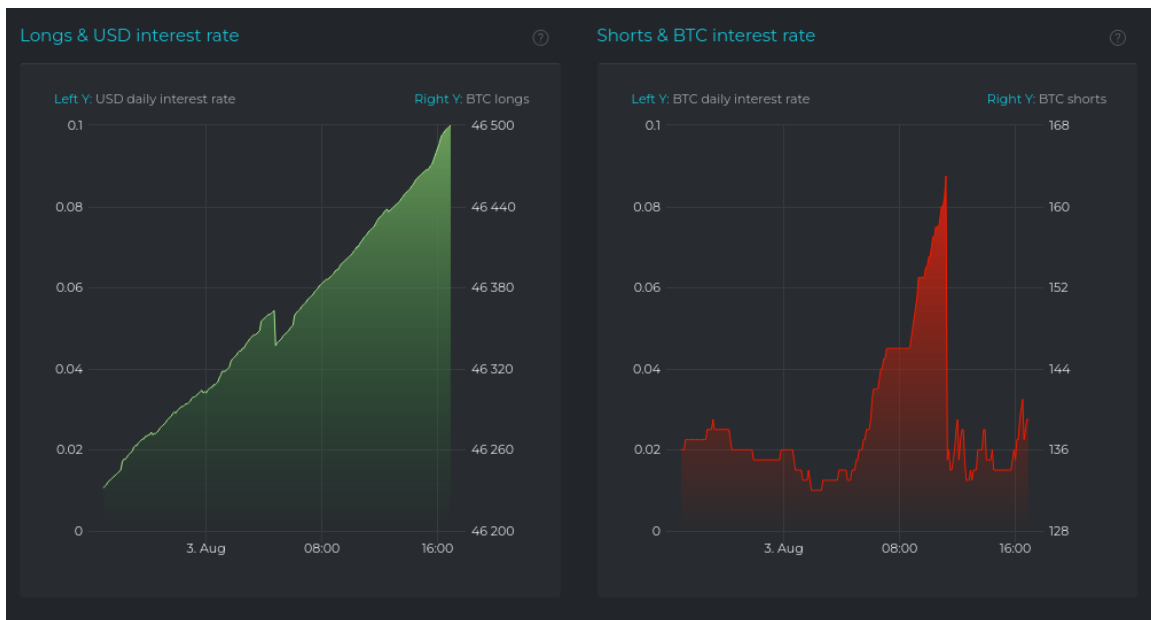
## How Will This Tool Help?

This tool will help in revealing heavy leverage areas susceptible to liquidations and mapping crowd sentiment for market timing. It supports forensic mapping of suspicious trading activities. Also, it is capable of documenting rapid swings for fraud or abuse investigation.

On the whole, it is useful in tracking large scale market manipulation attempts.

## Proof of Concept (PoC) Images





## **15 Liner Summary**

- Live Bitcoin margin position analytics
- Breakdown of long vs short sentiment
- Historical and real-time visualization
- Health scores to gauge market risk
- Web-based access; no installation
- Percent change tracking for positions
- Aggregated mana metrics for sentiment
- Custom timeframes (24H/7D/14D)
- Pain indicators for liquidations
- Chart/data export options
- Focused on Bitfinex/major exchange data
- Detects abnormal leverage shifts
- Assists market abuse investigation
- User-friendly dashboard
- Fast and updated data flow
- Effective for market forensic profiling

## **Time to Use / Best Case Scenarios**

- During spikes in crypto market volatility
- When investigating coordinated pump/dump events
- Early warning for liquidation risk
- Cross-checking sentiment before trading announcements

## **When to Use During Investigation**

- Post flash-crash analysis
- Suspicious trading pattern detection
- Mapping sentiment shifts ahead of big news
- Evaluating influencer-driven market activity

## **Best Person to Use This Tool & Required Skills**

**Best User:** Crypto-Forensic Analyst / Financial Investigator

**Required Skills:**

- Familiarity with crypto margin trading
- Understanding leveraged positions and implications
- Ability to interpret trading/sentiment charts
- Experience in extracting and reporting financial market data

**Flaws / Suggestions to Improve**

- No API data for advanced automation
- Limited to Bitfinex/selected exchanges
- Lacks multi-asset analytics outside BTC
- No on-chain correlation module
- Could benefit from alert/notification features

**Good About the Tool**

- Clear sentiment analytics
- Live feedback
- Fast updates for critical events
- Effective for real-time forensics on market behavior

## **2. Lunar Crush**

**Description**

A social intelligence and analytics platform designed to track the influence, sentiment, and activity surrounding cryptocurrencies, digital assets, and their associated communities across major social networks.

## **What Is This Tool About?**

LunarCrush processes large volumes of social media data to detect trending assets, influencer behavior, and real-time sentiment shifts—linking social activity to market movements.

## **Key Characteristics / Features**

- Real-time social listening for digital assets
- Community engagement and activity metrics
- Sentiment analysis with AI-based scoring
- Influencer impact and ranking
- Trending asset and hashtag identification
- Comparative analytics of projects and influencers
- Data visualization dashboards
- Multi-platform coverage: Twitter, YouTube, Reddit, etc.
- API integration for automation
- Alerts on trending topics or projects
- Leaderboards for coins and influencers
- Intuitive interface for both pros and beginners

## **Types / Modules Available**

- Social Activity Tracker
- Sentiment Heatmap
- Influencer Analytics
- Trending Coin Dashboard

## **How Will This Tool Help?**

- Maps project/influencer impact on market trends
- Identifies source and spread of market rumors or hype
- Links spikes in social sentiment with abnormal trading activity
- Assists investigators in tracing coordinated pump campaigns
- Tracks community manipulation and scam propagation

## Proof of Concept (PoC) Images

The screenshot displays the LunarCrush website interface. The top navigation bar includes links to various tools and services like Kali Linux, Kali Tools, Kali Docs, CTFtime, picoCTF, WhatsApp, YouTube, CyberChef, ChatGPT, Kali NetHunter, Exploit-DB, and Google Hacking DB. The main header features the LunarCrush logo, a search bar with the placeholder text "What trends are you looking for?", and a "Try New App" button. The central banner reads "Social media impacts markets" with the tagline "Gain an edge with real-time social and market trends." Below this, there are buttons for "Sign Up" and "View API Docs", and a note about social intelligence pricing. A purple banner at the bottom of the main section announces "Now Live: LunarCrush MCP Server! Bring social context to your AI." The lower section, titled "Cryptocurrencies", provides a detailed overview of market data, including Market Cap, Trading Volume, Sentiment, Engagements, and Mentions. It also features three panels: "Coin of the Day" (listing Treasure, Draggy CTO, and MOO DENG), "Top Gainers" (listing Port Finance, Auto, and Helpful Coin), and "Recently Added" (listing Mindfak By Matt Furie, FARTLESS COIN, and Mother of Bonk). At the bottom, a table lists the top three cryptocurrencies: Bitcoin (BTC), Ethereum (ETH), and XRP (XRP), with their respective prices, market caps, and dominance percentages.

**Market Summary:**

- Market Cap: \$3.69T (+\$6.48B)
- Trading Volume: \$129.1B (+0.24%)
- Sentiment: 79% 0%
- Engagements: 241.39M (+32.07M)
- Mentions: 773.19K (+43.57K)

**Coin of the Day:**

Coin	Date
Treasure	Today
Draggy CTO	1d ago
MOO DENG	2d ago

**Top Gainers:**

Coin	Price
Port Finance	\$0.003942 +930.85%
Auto	\$107.68 +576.44%
Helpful Coin	\$0.0004110 +454.45%

**Recently Added:**

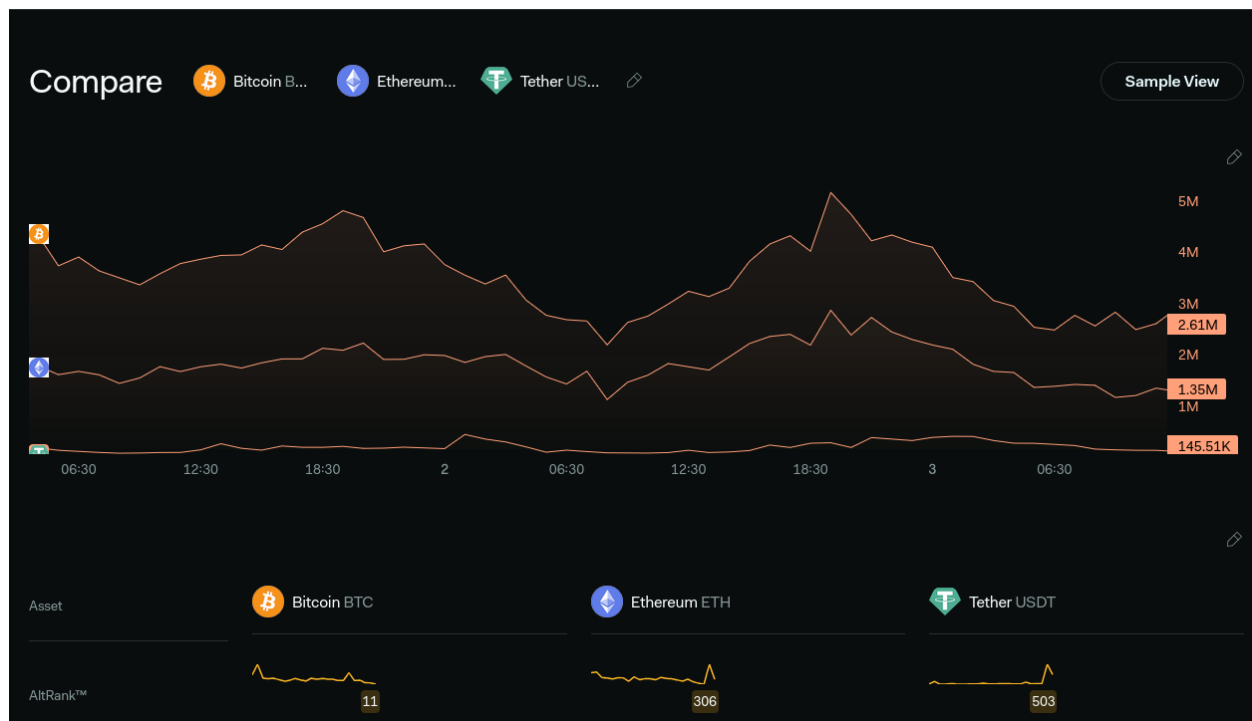
Coin	Price
Mindfak By Matt Furie	\$0.007229 +129.08%
FARTLESS COIN	\$0.003220 +4,675.03%
Mother of Bonk	\$0.0005996 +968.91%

**Top Cryptocurrencies:**

#	Name	Price	1h %	24h %	7d %	Trading Volume	Market Cap	Market Dominance	AltRank
1	Bitcoin BTC	\$114,205.98	+0.41%	+0.67%	-3.45%	\$55.57B	\$2.27T	+0.16% 61.61%	+303
2	Ethereum ETH	\$3,512.14	+1.13%	+0.81%	-8.22%	\$27.5B	\$423.95B	+0.10% 11.48%	+284
3	XRP XRP	\$2.89	+0.51%	-1.68%	-9.87%	\$7.46B	\$171.18B	+0.02% 4.64%	+1.26K







## 15-Liner Summary

- Tracks digital asset sentiment across platforms
- AI-driven influencer analytics
- Social volume monitoring for coins/tokens
- Real-time trending asset dashboard
- Sentiment scoring (bullish/bearish)
- Community growth and engagement stats
- Supports both research and live monitoring
- Powerful leaderboards for insight ranking
- Detects coordinated market campaigns
- API and export data options
- Custom alerts for chosen assets/projects
- Multi-platform integration (Twitter, Reddit, etc.)
- Visual, intuitive analytics presentation
- Easy for non-technical investigators
- Rapid deployment in active monitoring
- Bridges social media and market forensics

### **Time to Use / Best Case Scenarios**

- When new tokens or coins are trending rapidly
- Early warning for viral trading signals or scams
- During post-incident attribution and source mapping
- For influencer campaign analysis

### **When to Use During Investigation**

- Tracking social-driven market manipulations
- Viral coin pump scheme mapping
- Coordinated FUD campaign identification
- Digital asset/dApp reputation analysis

### **Best Person to Use This Tool & Required Skills**

**Best User:** Digital Forensics Investigator / Crypto Community Analyst

#### **Required Skills:**

- Knowledge of crypto project ecosystems and social media
- Understanding of influencer marketing trends
- Ability to interpret AI-driven sentiment analytics
- Experience with social listening and community analysis

### **Flaws / Suggestions to Improve**

- Limited to accessible social platforms and public data
- Sentiment scoring sometimes affected by bot activity
- No direct market integration (purely social side)
- Needs fine-tuned alerts for niche projects
- Additional coverage for smaller, emerging platforms desired

### **Good About the Tool**

- Comprehensive, real-time social analytics
- Easy to visualize and interpret
- Strong influencer/asset trending features
- Regular feature updates and community support