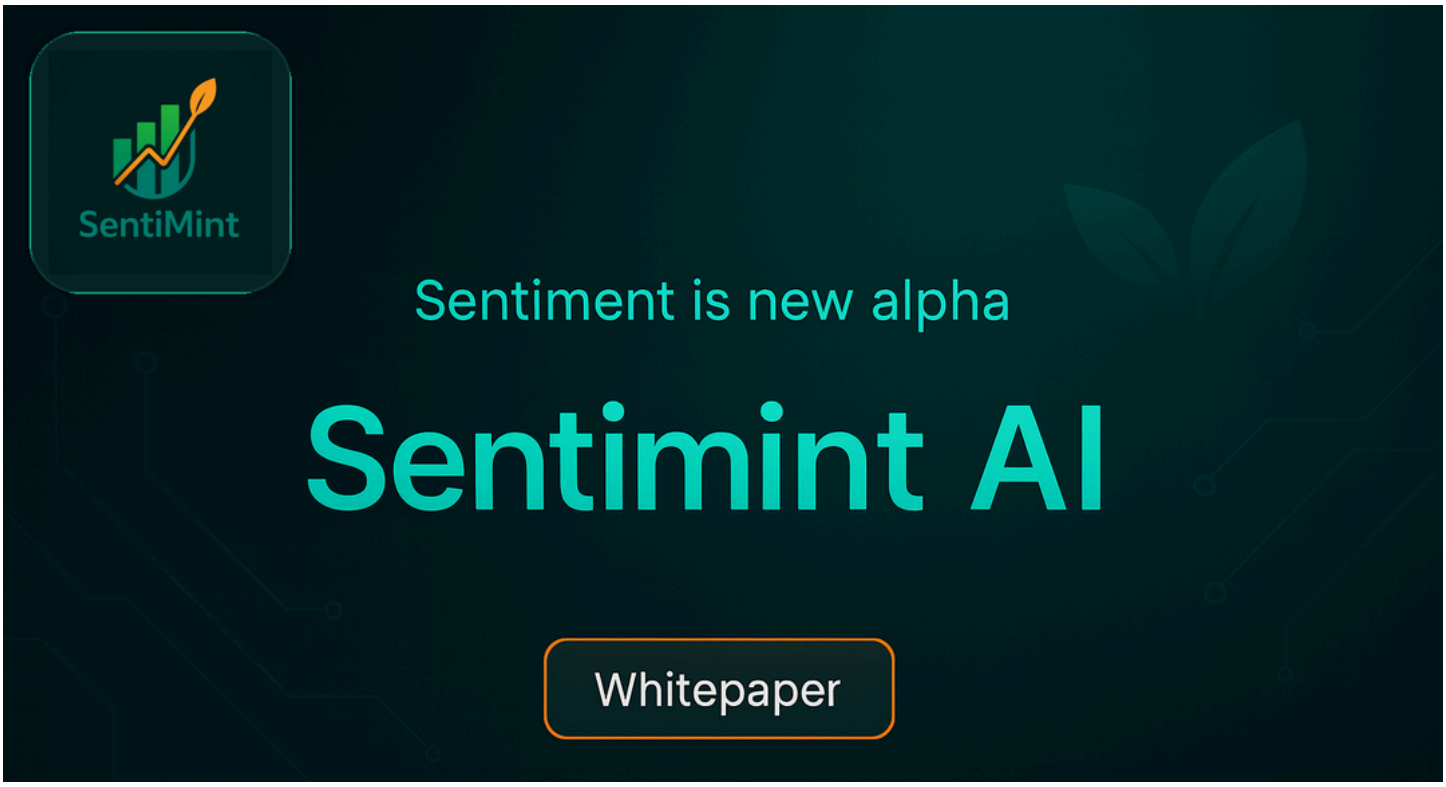

Ticker Symbol - $MINT

0) Executive Summary

SentiMint is an AI-driven sentiment analytics protocol for crypto markets. It constantly consumes public social, news, and on-chain signals; processes them with NLP/LLM models; and generates actionable indices, alerts, and predictive scores. Traders and builders consume the intelligence through dashboards, APIs, and chatbots. The native token $MINT offers access, staking, governance, and incentives.

Core value: convert noisy crypto discourse into trustworthy trading signals and withstand manipulation while maintaining privacy.

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1) Problem

1. Story-based volatility: Prices fluctuate with hype, FUD, and crowd sentiment; retail does not have institutional-quality tools to measure it.

2. Noise & manipulation: Bot farms, sybil accounts, and shilling coordination warp sentiment.

3. Disciplinary data: Insights are fragmented across X/Telegram/Reddit/Discord/news and on-chain activity; it is difficult to sew them together.

4. Latency: Alpha expires fast; data must be handled in near real time.

5. Trust: Users require open, understandable metrics—not black boxes.

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2) Solution Overview

SentiMint provides a Real-Time Sentiment Index, token-level SentiScores, and a Trend Prediction Engine on top of:

• Multimodal data ingestion (social, news, on-chain, market microstructure).

• AI/NLP pipelines for classification, entity linking, and sarcasm detection.

• Anti-manipulation defenses (bot scoring, sybil resistance, anomaly detection).

• Transparent scoring with interpretable sub-factors and confidence intervals.

• APIs, dashboards, and bots for traders, funds, exchanges, and projects.

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3) Market Landscape & Differentiation

• Current tools focus on raw social numbers or plain sentiment.

• SentiMint innovation: unites social + on-chain + microstructure with LLM-driven context, secure protection from manipulation, and transparent interpretability. Built as a developer platform (API-first) alongside a retail-safe app.

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4) System Architecture

[Data Sources]--> [Ingestion] --> [Processing & Feature Store] --> [Models] --> [Scoring] --> [APIs/Dashboard/Bots]

4.1 **Data Sources (public/permissioned, terms-compliant)**:

• Social: public postings from X, Reddit, Discord/Telegram public channels

• News/RSS: crypto websites, project blogs

• On-chain: DEX trades, liquidity updates, whale movements, token burns/mints

• Market: order book depth, volatility, funding, OI (if available)

4.2 **Ingestion Layer:**

• Stream collectors + webhooks

• Rate limiters, de-duping, and hashing of content

• Queueing (e.g., Kafka-like) with retry policies

4.3 Processing & Feature Store:

• Language detection, spam filtering, bot score estimation

• Named-entity recognition (tickers, symbols, projects), link expansion

• Embedding generation (LLM/transformer) and storage

• Time-aligned feature tables (minute/hour/day)

4.4 Model Layer:

• Sentiment Classifier: multi-label (bullish, bearish, fud, hopium, neutral, sarcasm)

• Narrative Classifier: maps topics (airdrops, listings, exploits, upgrades)

• Sybil/Manipulation Detector: density-based and graph-based outlier detection

• Trend Prediction: gradient boosting / temporal transformers using sentiment momentum + on-chain features

• Confidence Estimator: predictive uncertainty via ensembling

4.5 Serving Layer:

• REST/GraphQL APIs

• Web dashboard + mobile-responsive SPA

• Telegram/X bots for fast queries (e.g., /sentiment BTC)

4.6 Observability:

• Model drift monitors, data QA, latency SLOs, audit logs

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5) Data Ethics & Privacy

• Process solely publicly available content or data licensed for use; respect platform ToS.

• Store embeddings and derived features, not raw PII.

• Opt-out of data use for projects/users where platforms support.

• Release Model Cards detailing datasets, metrics, and known constraints.

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6) SentiScores: Transparent Token Intelligence

Each monitored token receives a SentiScore (0–100) with sub-factors and confidence bands:

• Hype Surge (HS): volume & velocity of original bullish authors weighted by reputation.

• Narrative Strength (NS): coherence and stability of narratives (e.g., listings, partnerships).

• Community Activity (CA): original authors, cross-platform width, retention.

• FUD Risk (FR): adversarial indicators (exploit rumors, rug chatter, dev inactivity).

• On-Chain Pulse (OP): whale netflow, CEX/DEX liquidity delta, holder churn.

Composite Score (illustrative):

$$S = w_1 \cdot HS + w_2 \cdot NS + w_3 \cdot CA - w_4 \cdot FR + w_5 \cdot OP$$

Weights (w) are tuned to governance and normalized. Scores are smoothed (EMA) and time-decayed to minimize noise. Per-token Confidence score indicates data coverage and model consensus.

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7) Trend Prediction Engine

• Features: influencer-correlated signals, on-chain deltas, liquidity shocks, sentiment momentum/acceleration, volatility regime.

• Models: gradient boosting + temporal transformers; cross-validated via rolling windows.

• Outputs: risk bands, Near-term directional bias, event likelihood (e.g., listing/exploit chatter).

• Delivery: webhook/Push/Telegram alerts in plain-English explanations ("FUD Risk increasing due to exploit rumors from high-rep sources").

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8) Anti-Manipulation & Quality Controls

• Reputation Graphs: author reputation adapts with past precision and community trust.

• Sybil Resistance: device/network heuristics, account age, posting patterns, graph connectivity.

• Anomaly Detection: abrupt single-source spikes are down-weighted.

• Source Diversity Caps: stop a few voices from overpowering.

• Backtesting & Live Shadow Tests: ongoing comparison against baselines.

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9) Products

9.1 Dashboard (Retail/Pro): heatmaps, token pages, custom watchlists, backtests, alert rules.

9.2 APIs (B2B):

• GET /v1/tokens/{symbol}/sentiscore

• GET /v1/tokens/{symbol}/factors

• GET /v1/alerts?symbol=BTC&rule=hype_surge

• GET /v1/predictions/{symbol}

9.3 Bots: Telegram/X quick-look sentiment and alerts.

9.4 Reputation Console (for projects): monitor brand health, FUD spikes, response playbooks.

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10) Token ($MINT) Utility

- Access: unlock Pro/Pro+ dashboards and advanced alerts.
- API Credits: stake $MINT for higher rate limits and premium endpoints.
- Prediction Pools: stake to enter non-custodial contests; earn rewards for accuracy.
- Governance: vote on weights, listings, roadmap, and treasury spend.
- Fee Discounts: pay with $MINT for lower subscription/API fees.

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11) Tokenomics

Tokenomics	
Total Supply: 1,000,000,000 $MINT	
Allocation	**Percentage**
Presale	50%
Development & Marketing	20%
Team & Advisors	5%
Liquidity	25%

11.1 Presale Mechanics (Proposed; subject to community vote):

- Tranches: Whitelist → Public Round on Pinksale.
- Distribution Options:

o Option A (fast liquidity): 100% TGE claim.

• Anti-dump: per-wallet caps, sybil checks; unsold tokens burned or contributed to LP.

11.2 Team & Advisory Vesting (Proposed):

• 3-month cliff, then linear monthly over 21 months (total 24 months).

• Tokens stored in a timelock, with a public vesting dashboard.

11.3 Liquidity Policy (Proposed):

• Seeded LP at TGE; LP tokens locked for 12 months through a timelock contract.

• Market making budget (from Liquidity %) for spread/volume stabilization (off-chain agreements disclosed).

11.4 Treasury Governance:

• Development/Marketing wallet under 2/3 or 3/5 multisig.

• Quarterly budget proposals and on-chain reporting.

• Option for revenue-based buyback & burn (e.g., up to 20% net revenues), subject to DAO vote.

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12) Economics & Revenue

• Subscriptions: Pro/Pro+ tiers.

• B2B/API: volume-based pricing; enterprise SLAs.

• Prediction Pools: protocol fee on prize pools.

• Reputation Console: project analytics seats.

• Data Licensing: derived, aggregated indices (no raw PII).

Sustainability: proportion of revenue money goes toward R&D, ops, and (subject to approval) $MINT buybacks.

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13) Roadmap

Q3 2025

• Alpha dashboard

- Baseline SentiScore
- Telegram bot MVP
- Presale architecture
- TGE

Q4 2025

- Public dashboard v1
- Prediction Pools beta
- API early access

Q1 2026

- On-chain pulse v2
- Mobile web app
- Reputation Console
- Model cards

Q2 2026

- Oracle feeds for dApps
- Exchange integrations
- Backtesting lab

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14) Security, Audits & Risk

- Smart Contracts: external audits prior to TGE; bug bounty.
- Data Security: encryption at rest/in transit; access logs; least-privilege IAM.
- Model Risk: publish eval metrics, drift monitoring, fallback rules.

• Market Risk: no financial advice; users control execution.

• Manipulation Risk: layered defenses; continuous tuning.

• Operational Risk: observability, incident playbooks, status page.

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15) Governance

• DAO-aligned roadmap approvals, parameter tuning, treasury oversight.

• Voting power via staked $MINT (quadratic or delegated voting options to be proposed).

• Transparency: quarterly reports; on-chain metrics.

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16) Compliance & Disclaimers

• Respect platform terms; use public/consented data only.

• KYC/AML for fiat on-ramps/centralized listings where necessary.

• SentiMint offers analytics, not brokerage or investment advice.

• Jurisdiction-specific offering documents (if any) will take precedence over this whitepaper.

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17) Implementation Plan (120-Day Outline)

Weeks 1–3: lock down data schemas; basic collectors; MVP sentiment classifier; brand/landing.

Weeks 4–8: SentiScore v1; token pages; Telegram bot; presale contracts draft.

Weeks 9–12: prediction features; alerting; API endpoints; audit prep.

Weeks 13–16: closed beta; stress tests; public docs; TGE readiness.

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18) KPIs

- Coverage: number of tokens with high-confidence scores
- Latency: P95 end-to-end under N seconds
- Accuracy: backtest hit-rate vs. baselines
- Retention: DAU/MAU, alert engagement
- B2B: active API keys, enterprise seats
- Treasury: runway months, audited spend

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19) Conclusion

SentiMint translates collective market emotion into a transparent, defensible, and actionable stack of signals. With $MINT as an access and governance layer, the protocol strives to become the go-to standard for sentiment-aware crypto intelligence.

Join the Minted Revolution — let sentiments be your advantage.