DigiByte Sentinel-AI – Technical Specifications

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1. Input Metrics (normalized 0–1)

- entropy: randomness quality indicator

- nonce_repetition: likelihood of nonce reuse

- mempool_spike: relative traffic deviation

- reorg_depth: chain reorganization severity

- tx_size: abnormal transaction size ratio

2. Risk Scoring Weights

- Entropy: 0.30

- Nonce repetition: 0.25

- Mempool spike: 0.20

- Reorg depth: 0.15

- Transaction size: 0.10

3. Output

- risk_score: 0 to 1 float

- threat level: normal, elevated, high, critical

4. API Endpoint

POST /sentinel/analyze

Accepts JSON with normalized metrics and returns a risk evaluation object.

5. License