Crypto Al Hybrid v13 Setup Guide

Overview

The Crypto AI Hybrid v13 system combines real-time buy/sell alert generation, spike prediction, AI model retraining, and telemetry management with automated cleanup. It runs every 30 minutes using GitHub Actions.

1. Repository Setup

- 1 Log in to your GitHub account and click **New Repository**.
- 2 Enter a name like crypto-ai-hybrid-bot.
- 3 Select Public or Private visibility.
- 4 Click Create Repository.
- 5 Upload the contents of crypto_ai_hybrid_v13_package.zip (including .github/workflows).

2. GitHub Secrets and Variables

Add Telegram and Email credentials as GitHub Secrets and Variables for secure use in workflows:

- **TELEGRAM_TOKEN** your bot API token.
- TELEGRAM_CHAT_ID your chat or group ID.
- EMAIL USERNAME Gmail address for fallback alerts.
- EMAIL_PASSWORD app-specific password (not raw password).

3. Workflow Schedule

The GitHub Actions workflow runs every 30 minutes to train models, evaluate signals, send alerts, and clean telemetry logs. The schedule is defined as:

cron: */30 * * * *

4. Key Components

- train ai model.py trains hybrid Al and updates cache daily.
- crypto_ai_alert_v10.py generates buy/sell signals with spike predictor support.
- spike_predictor.py forecasts near-term spikes and dips.
- **telemetry_cleanup.py** removes logs older than max_log_age_days.
- config.json dynamic configuration (symbols, intervals, alert thresholds).

5. Running Locally (optional)

- 1 Install dependencies: pip install -r requirements.txt
- 2 Run training: python train ai model.py
- 3 Run alert logic: python crypto ai alert v10.py
- 4 Run cleanup manually: python telemetry_cleanup.py

6. Telemetry and Dashboard

Telemetry data is stored in **telemetry_logs/** and visualized via Streamlit dashboard. You can launch it locally using: **streamlit run telemetry_dashboard.py**.

7. Cleanup and Retention

The telemetry cleanup step runs automatically at the end of every workflow execution. It removes JSON logs older than the configured retention period (default 30 days). Uploaded artifacts remain preserved for audit.

8. Recommended Customization

- Update **config.json** to adjust symbols, thresholds, or retraining intervals.
- Change max_log_age_days to modify telemetry retention.
- Use **reason mode: adaptive** for detailed decision explanations in telemetry.
- Enable use_spike_predictor_in_alerts to incorporate spike forecasts in buy/sell logic.

End of Guide

© 2025 Crypto Al Hybrid Automation Suite