Linear Trend Spotter

Automated full-exchange scanner that identifies coins with strong, sustainable growth patterns.

Linear Trend Spotter continuously scans every coin listed on Coinbase, Kraken, and MEXC, applies a multi-stage filtering pipeline, and delivers real-time alerts — complete with professional chart images — directly to a Telegram group. It runs 24/7 so you don't have to.

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Problem

Most traders face the same challenge: sifting through thousands of coins across multiple exchanges to find genuine, sustained momentum — not just short-lived pumps. Manual screening is time-consuming and error-prone, and most free tools lack the nuance to distinguish smooth uptrends from sudden spikes.

Linear Trend Spotter automates the entire discovery process with a data-driven approach.

How It Works

The system applies a three-stage filtering pipeline to every listed coin on the target exchanges.

Stage 1 — Fundamental Filters

- **Volume gate:** Coins must exceed a minimum 24-hour trading volume (default: $1 M) to ensure adequate liquidity.
- **Multi-timeframe gain thresholds:** Average daily growth must be greater than 1% over both 7-day (cumulative > 7%) and 30-day (cumulative > 30%) windows. This eliminates one-off spikes and dead-cat bounces.

Stage 2 — Uniformity Analysis

This is the core differentiator. The system analyzes 30 days of price history and calculates a **Uniformity Score** (0–100) that measures how evenly gains are distributed across the period.

Score Range	Interpretation
45+	Smooth, reliable uptrend — gains are spread consistently across the window.
< 45	Uneven distribution — e.g., "hockey stick" charts where most gains cluster at the end. Automatically excluded.

Stage 3 — Chart Generation

When a coin passes both filters, the system generates a TradingView-style chart image showing the 30-day price action and attaches it directly to the Telegram notification.

Alert Behavior

Notifications follow a clean **enter/exit** model:

- **Entry alert** — Sent once when a coin first qualifies, including the chart image, Uniformity Score, 7-day and 30-day gain percentages, and exchange volume data.
- **Exit alert** — Sent once when a coin falls below the qualifying thresholds.

No repeated alerts, no spam.

Infrastructure

Component	Detail
Hosting	PythonAnywhere cloud (~$10/month)
Runtime	Python — runs continuously as a scheduled/always-on task
Exchanges	Coinbase, Kraken, MEXC (full listing coverage)
Delivery	Telegram Bot API

Acknowledgments

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👉 **Join the Telegram group** to see the scanner in action and receive alerts in real time.