

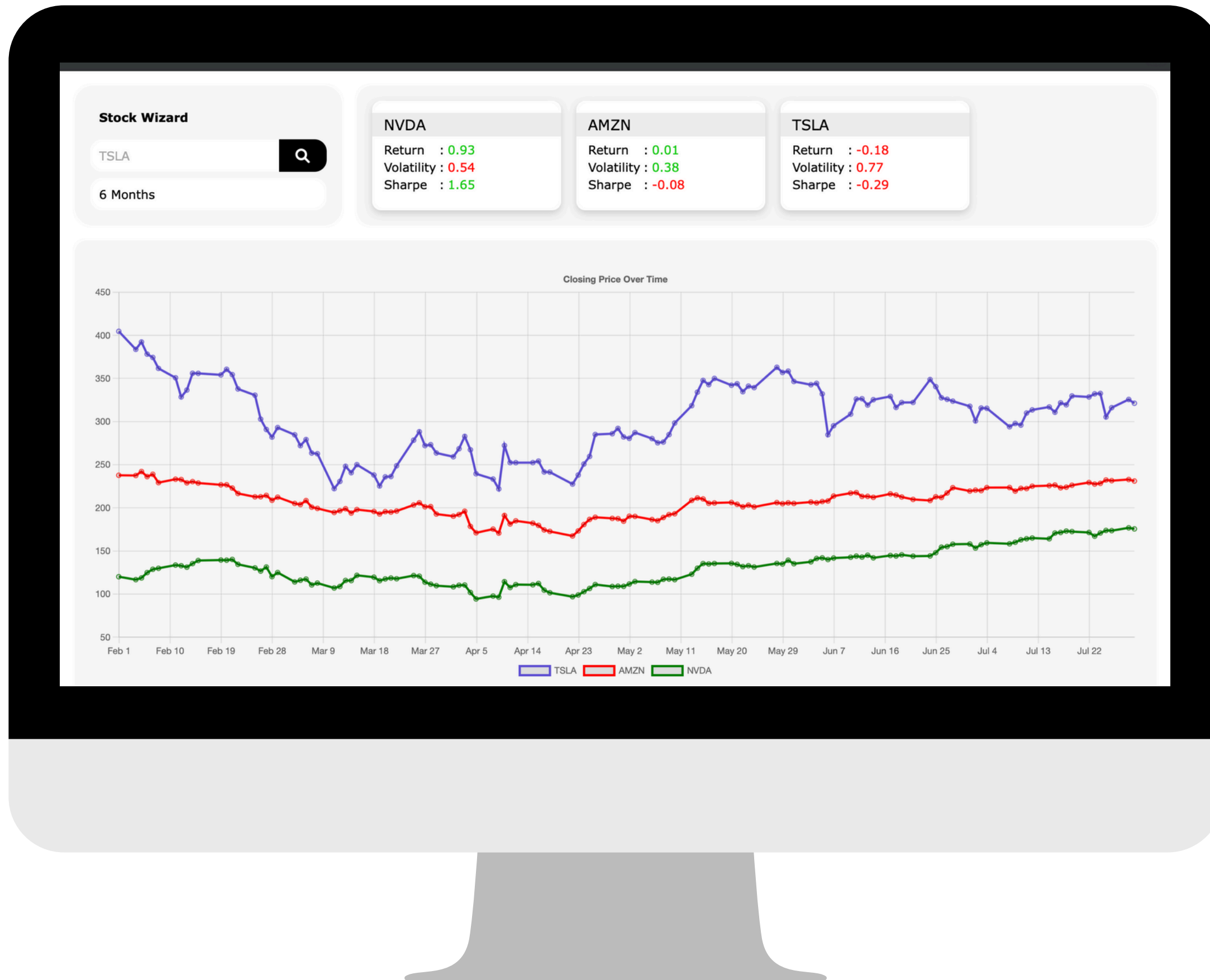
Stock Wizard



Wizardry in Wealth, Magic in Metrics

Lumos Your Financial Future

Customizable Portfolio Tracking ✨📈

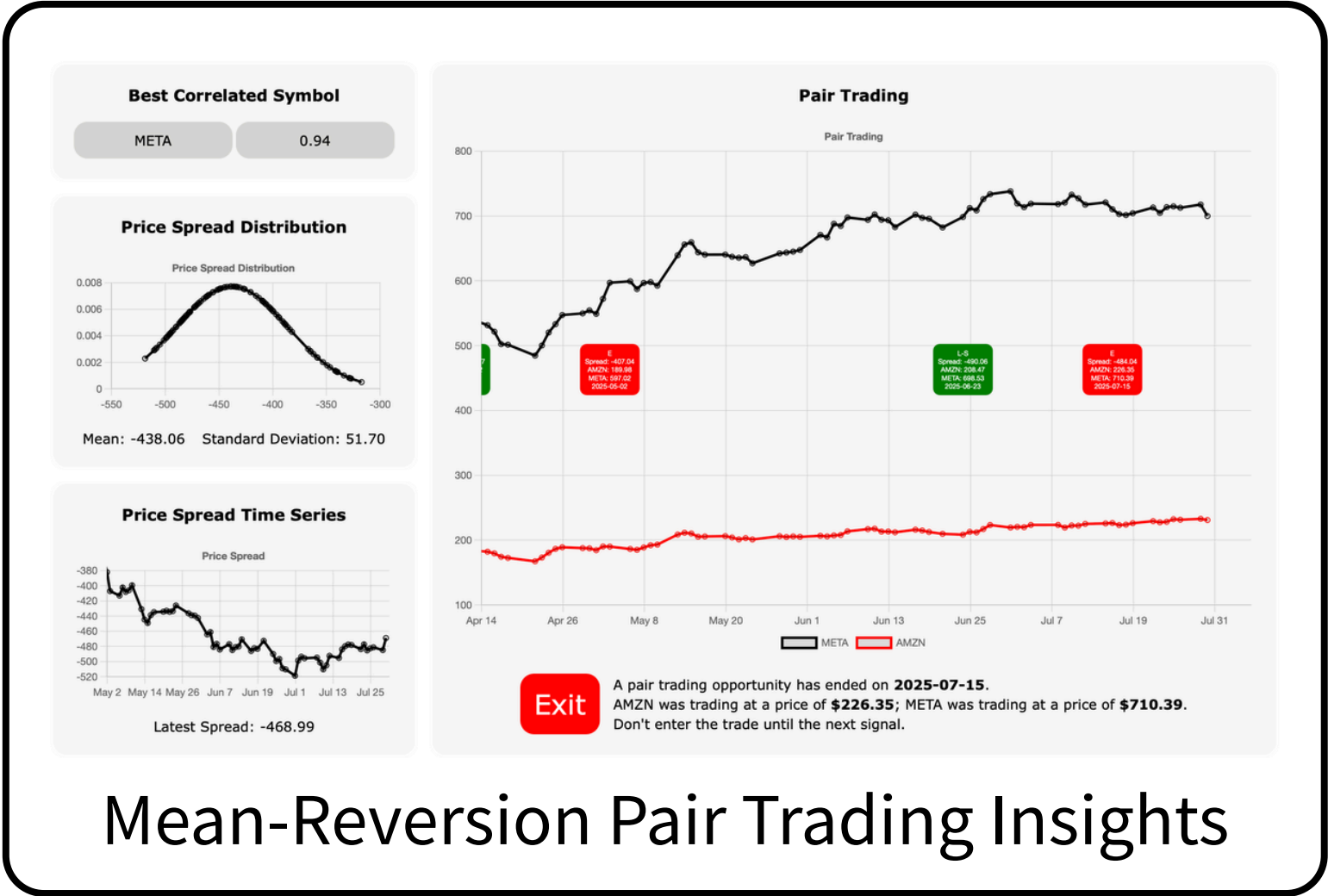
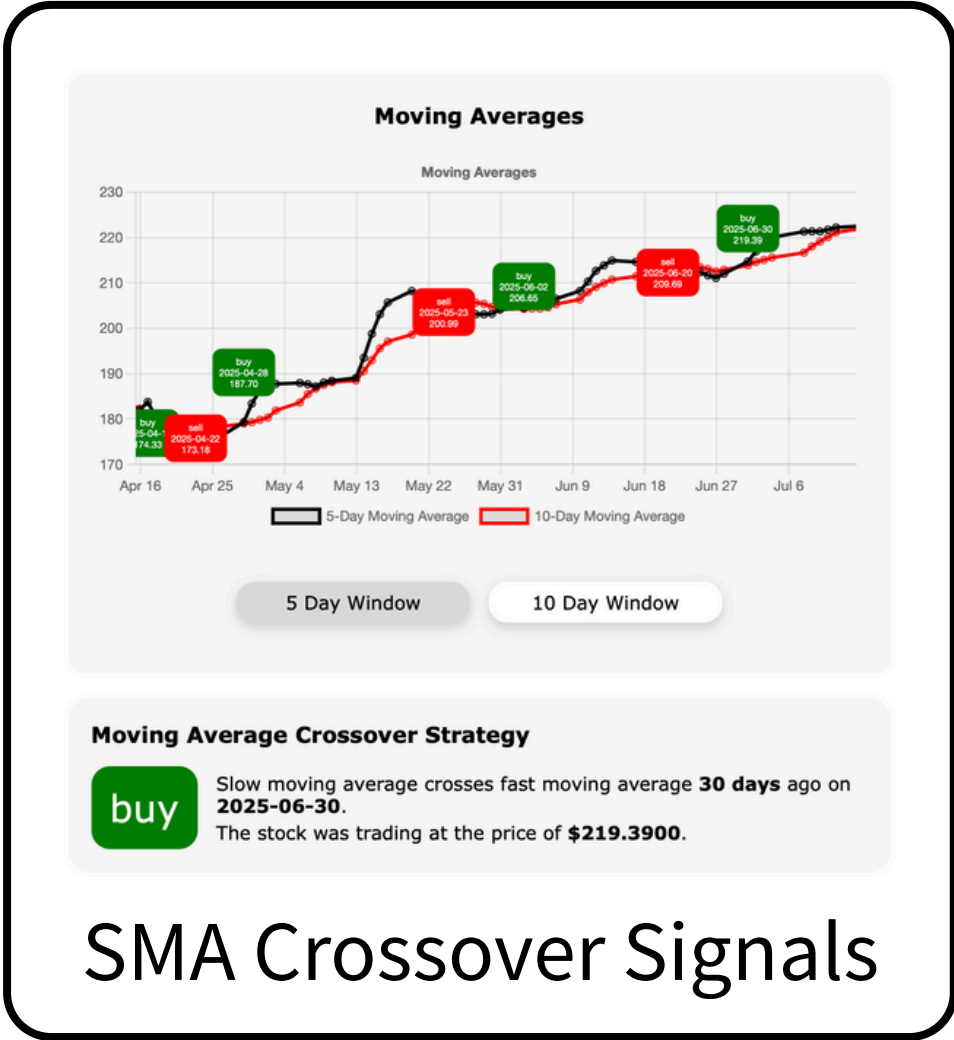


- **Add tickers to monitor** specific stocks
- **Adjust timeframes** to suit your analysis period
- **Instantly view key metrics:** annualized return, volatility, and Sharpe ratio

Deep-Dive Stock Analysis

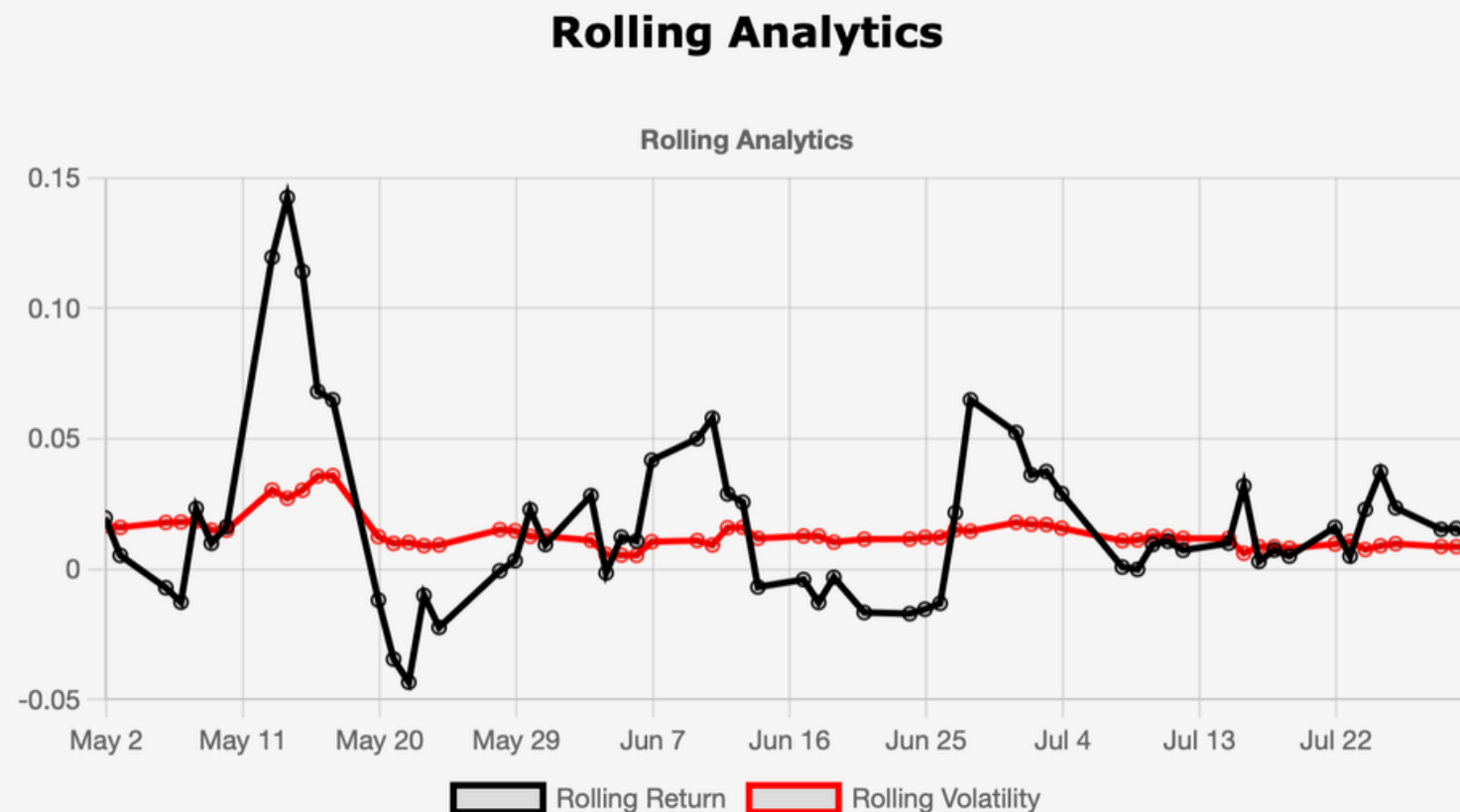
NVDA	AMZN	TSLA
Return : 0.93	Return : 0.01	Return : -0.18
Volatility : 0.54	Volatility : 0.38	Volatility : 0.77
Sharpe : 1.65	Sharpe : -0.08	Sharpe : -0.29

Focus on individual stocks with dynamic advanced analytics, visualized through an interactive interface.



Rolling Analytics

- **Rolling Mean:** Smooths out short-term fluctuations to show the average trend over a moving window.
- **Rolling Volatility:** Measures how much a stock's price varies over time, capturing changing risk levels.



5 Day Window

10 Day Window

The stock's recent return is higher than 64.4% of its historical performance.

64.4%

Risk Profile

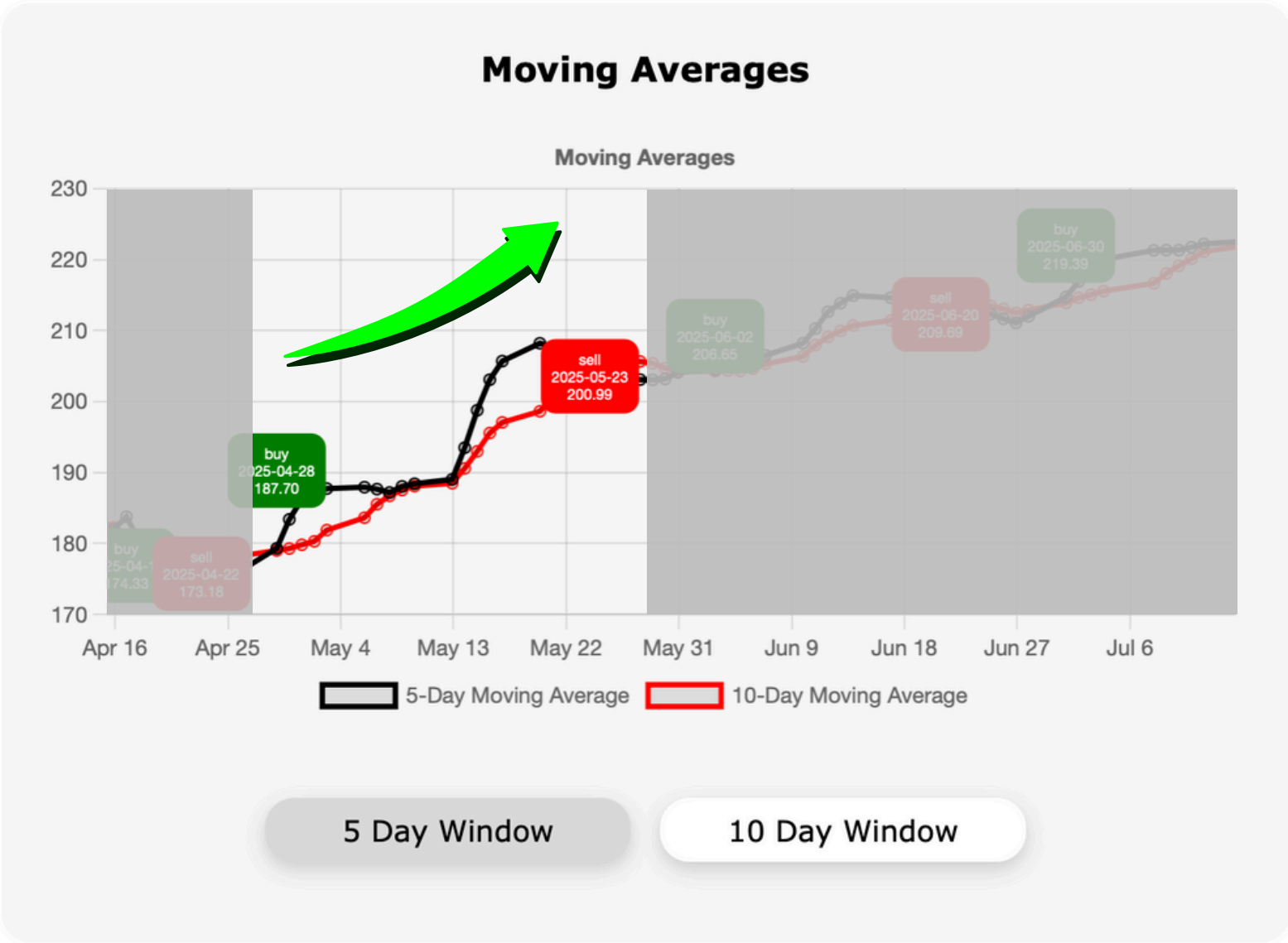
89%

Score Bar Insights - Example

64.4% Momentum

= stock's recent return is higher than 64.4% of its historical performance

Moving Average Crossover Signals ✨📈

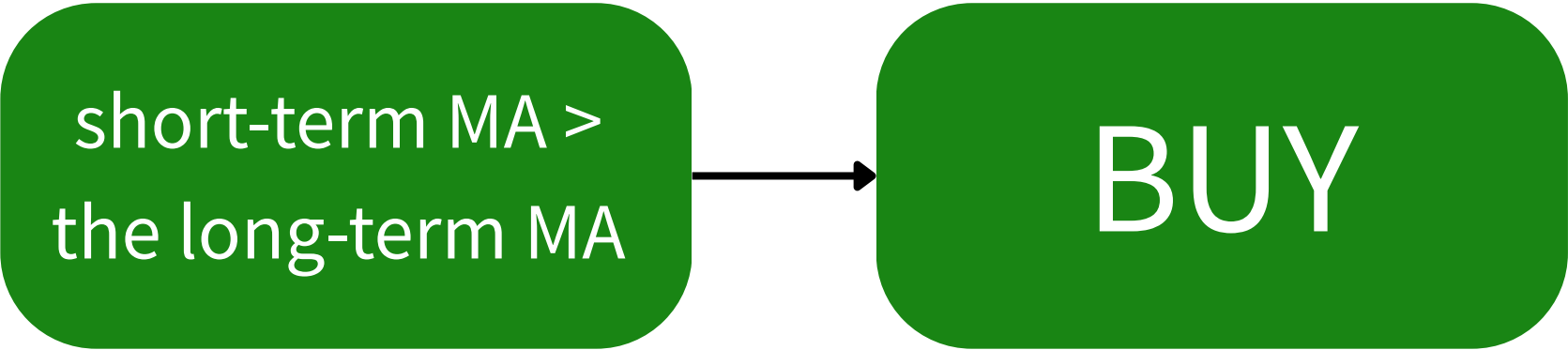


Moving Average Crossover Strategy

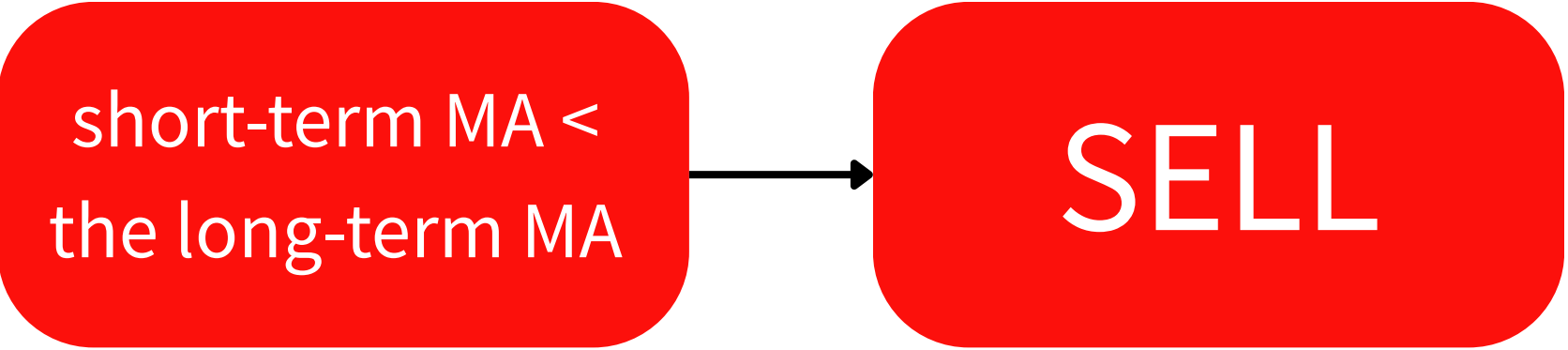
buy

Slow moving average crosses fast moving average **30 days** ago on **2025-06-30**.
The stock was trading at the price of **\$219.3900**.

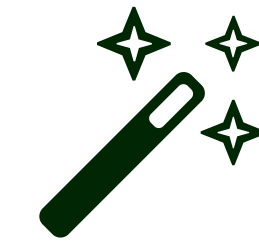
Golden Cross - Bullish



Death Cross - Bearish



Mean-Reversion Pair Trading Strategy



Identify the most positively correlated stock

Best Correlated Symbol

META

0.94

Price Spread Distribution

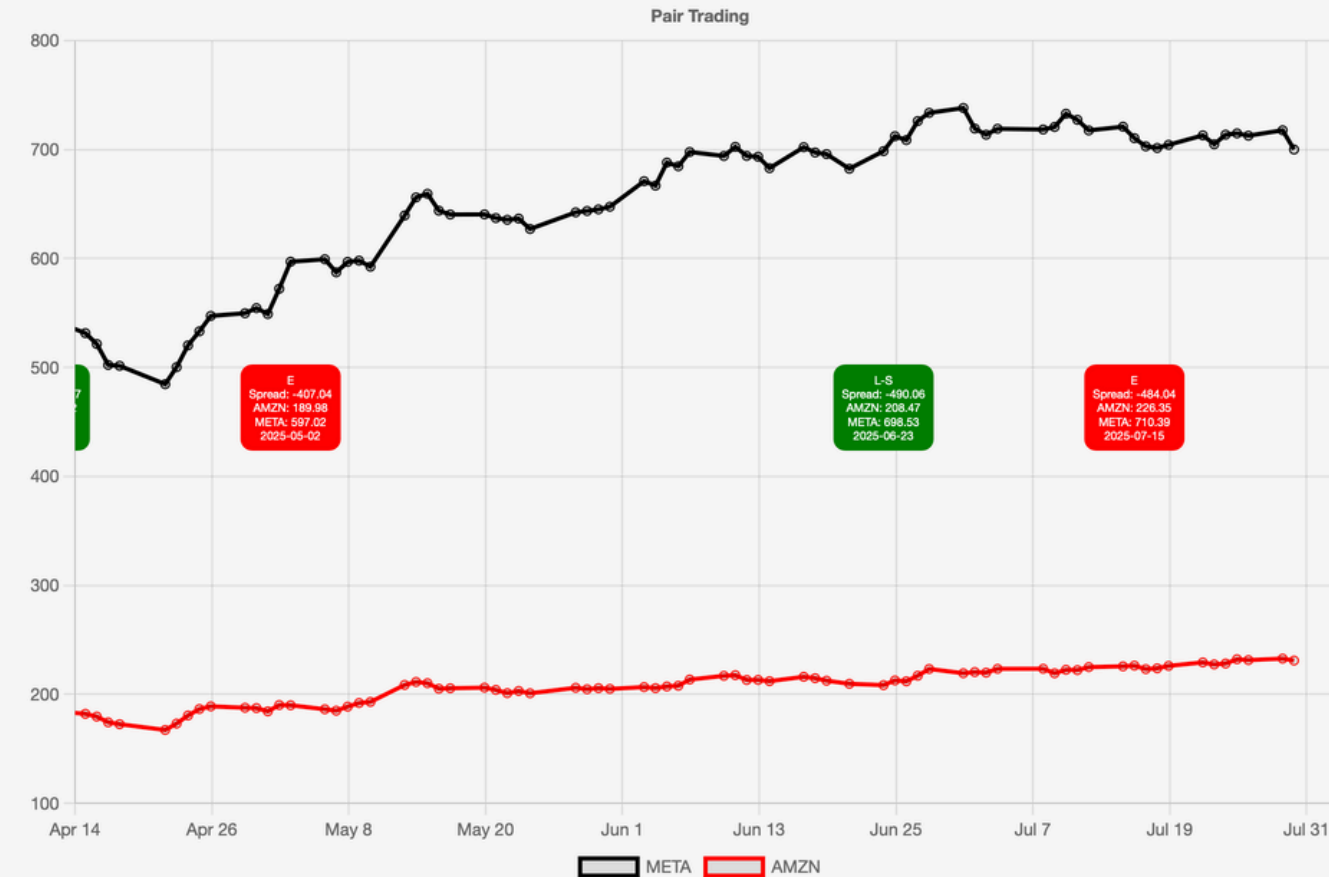


Price Spread Time Series



Model the historical price spread between the pair

Pair Trading



Exit

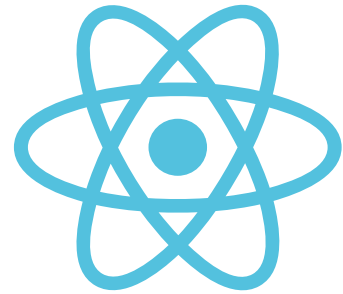
A pair trading opportunity has ended on **2025-07-15**.
AMZN was trading at a price of **\$226.35**; META was trading at a price of **\$710.39**.
Don't enter the trade until the next signal.

Monitor the price spread and detect opportunity

Signal triggers when **spread deviates ± 1.5 standard deviations** from the mean, suggesting a **long or short reversion trade**.

Tech Stack

Frontend



React JS

React JS builds reusable components, simplifying the UI development process



Redux

Redux streamlines state management workflows, increasing scalability



Node JS

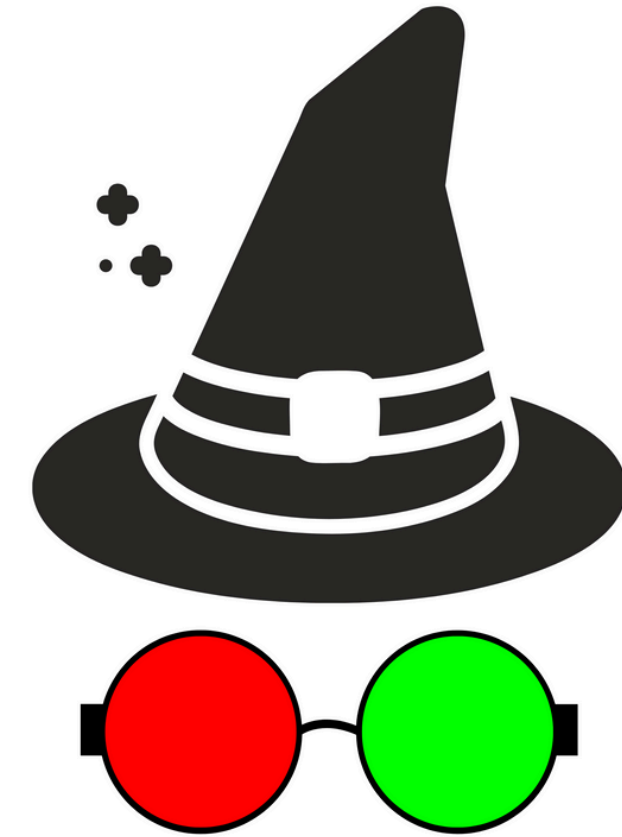
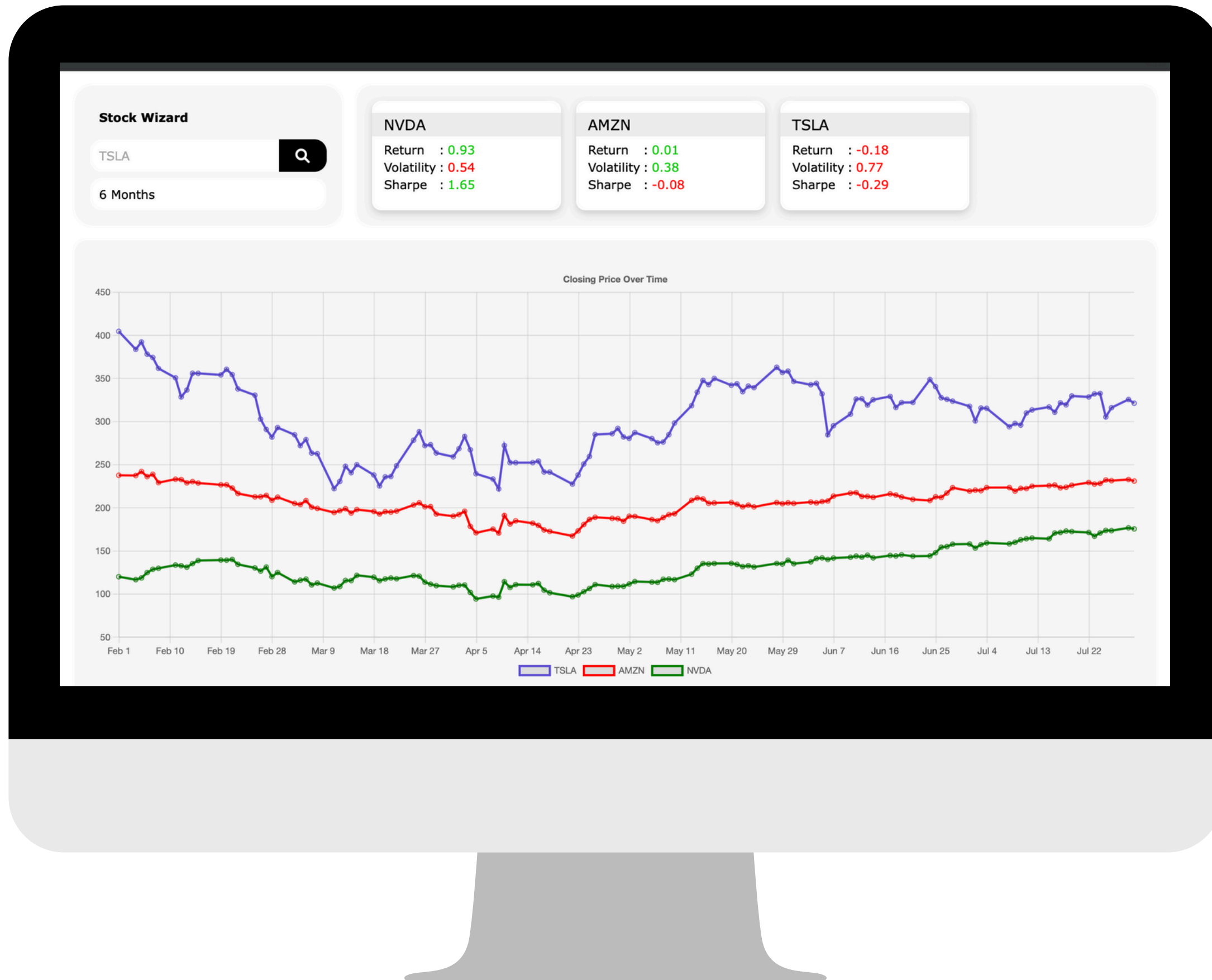
Node JS builds the REST API workflow, facilitating data fetching & backend logics



yahoo-finance-2

yahoo-finance-2 module is used for fetching of stock data

Stock Wizard ✨🪄



Check it out!

<http://stock-wizard-4llm.vercel.app>