

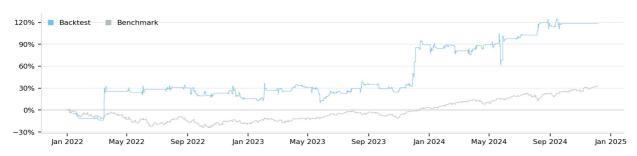
Strategy Description

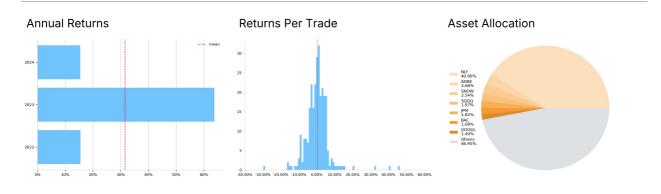
Weekly statistical arbitrage strategy founded on PCA mean reversion. PCA analysis is performed on the selected assets over the past 30 trading days and 3 components are retrieved as factors. Assets are individually regressed against these factors and their residuals are taken to compute Z-scores. Before computing the Z-scores, a Kalman filter is applied to reduce noise in the residuals. Additionally, an EGARCH(1,1) model is used to detect the current market regime in terms of volatility. The Z-score threshold is altered using a sigmoid function to account for different regimes. Lastly, weights are attributed proportionally to the Z-scores of assets past said threshold.

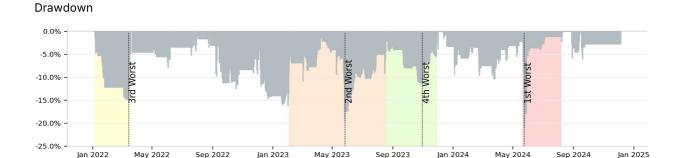
Key Statistics Runtime Days 1069 Drawdown 20.9% Probabilistic SR Turnover 12% 25% CAGR 30.5% Sharpe Ratio 0.7 Capacity (USD) 4.9M Sortino Ratio 0.8 Trades per Day 0.6 Information Ratio 0.6



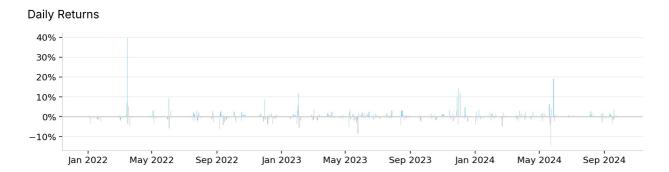
Cumulative Returns

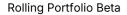


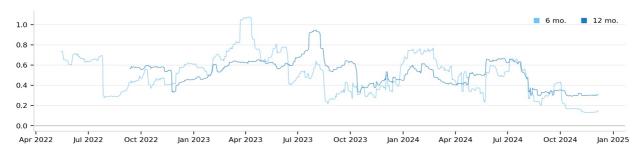




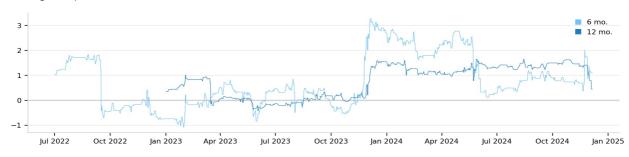




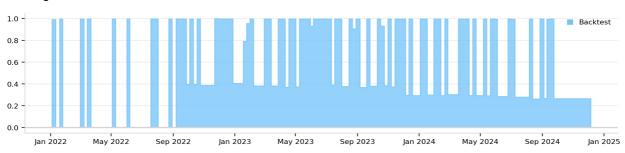




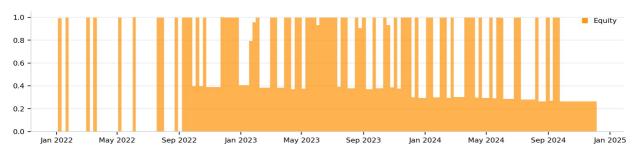
Rolling Sharpe Ratio





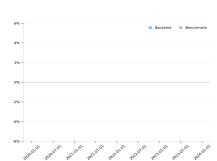








Post-COVID Run-up 2020-2021



Russia Invades Ukraine 2022-2023



Al Boom 2022-Present

