Trader Behavior & Market Sentiment — Brief Report

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Executive Summary

This 1–2 page report summarizes the relationship between Hyperliquid trader performance
and the Bitcoin Fear & Greed Index. Daily aggregates of trader PnL, trade counts, win rate,
and average trade size were merged with daily Fear & Greed values and analyzed.

Top-line Findings (first-pass):
- Pearson correlation (fear_value vs daily_pnl_sum): -0.083
- Pearson correlation (fear_value vs win_rate): 0.152
- Median daily trades: 67
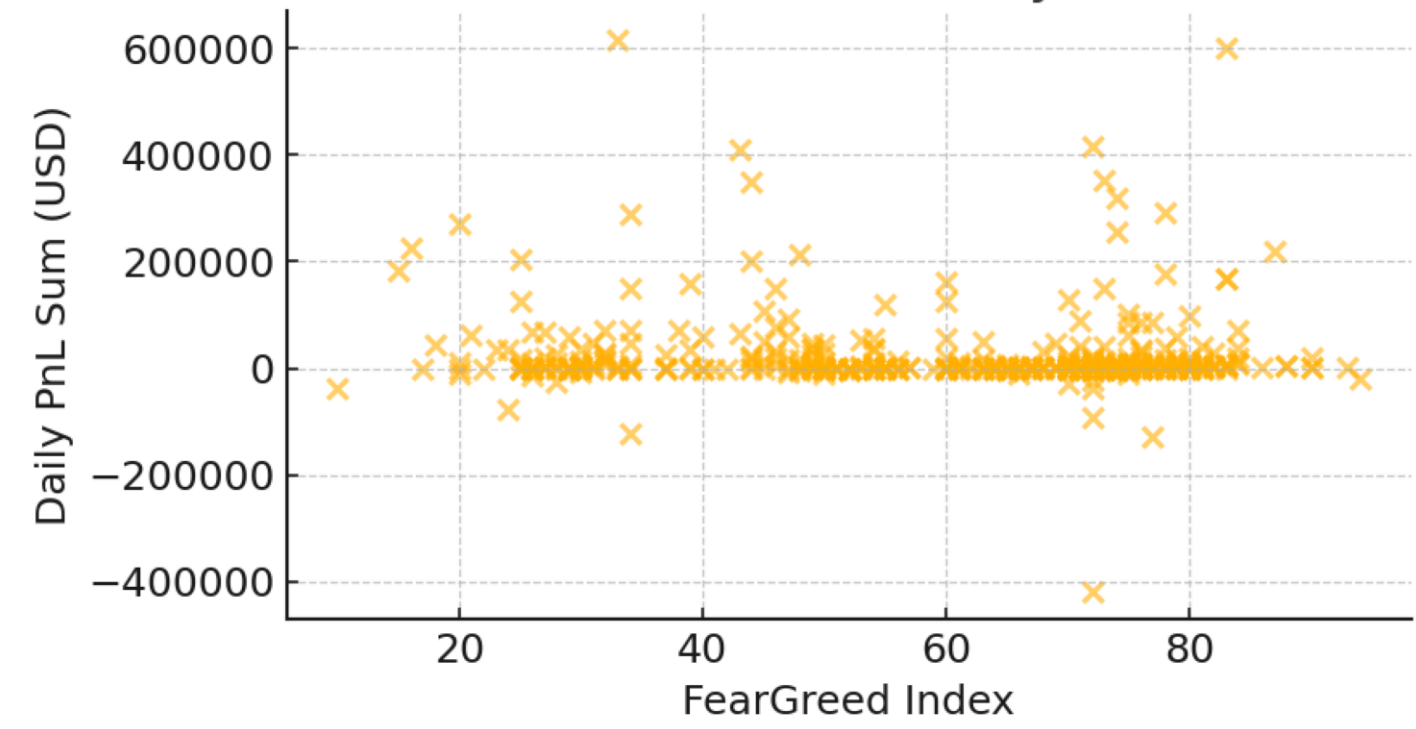- Median daily notional traded (USD): 327208.58

Recommendations

1. Segment analysis: analyze high-performing accounts separately — sentiment effects can be
   concentrated in subsets of traders.
2. Rolling features: include 7-day/14-day rolling averages for both sentiment and PnL to capture
   short-term regime changes.
3. Predictive model: build a simple classifier (e.g., logistic regression) to predict profitable days
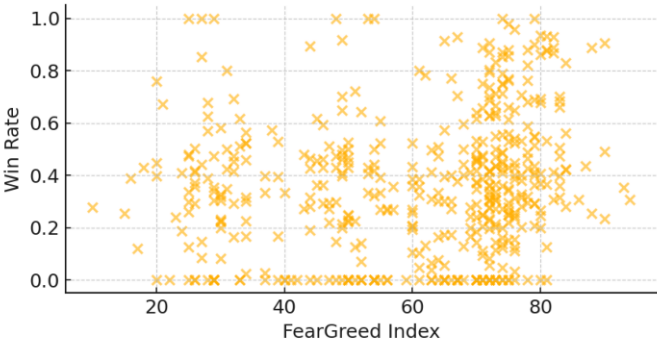   using sentiment + trader features; report precision/recall for business relevance.

Summary statistics (selected):

	count	mean	std	50%
fear_value	479.0	6.005428e+01	1.868762e+01	67.000000
daily_pnl_sum	480.0	2.145200e+04	7.186146e+04	1118.961740
num_trades	480.0	4.400500e+02	8.097487e+02	67.500000
daily_size_usd_sum	480.0	2.481641e+06	6.284835e+06	327208.580000
win_rate	480.0	3.664582e-01	2.636522e-01	0.352779

FearGreed Index vs Daily PnL Sum

FearGreed Index vs Win Rate

Normalized Time Series: Fear vs Daily PnL