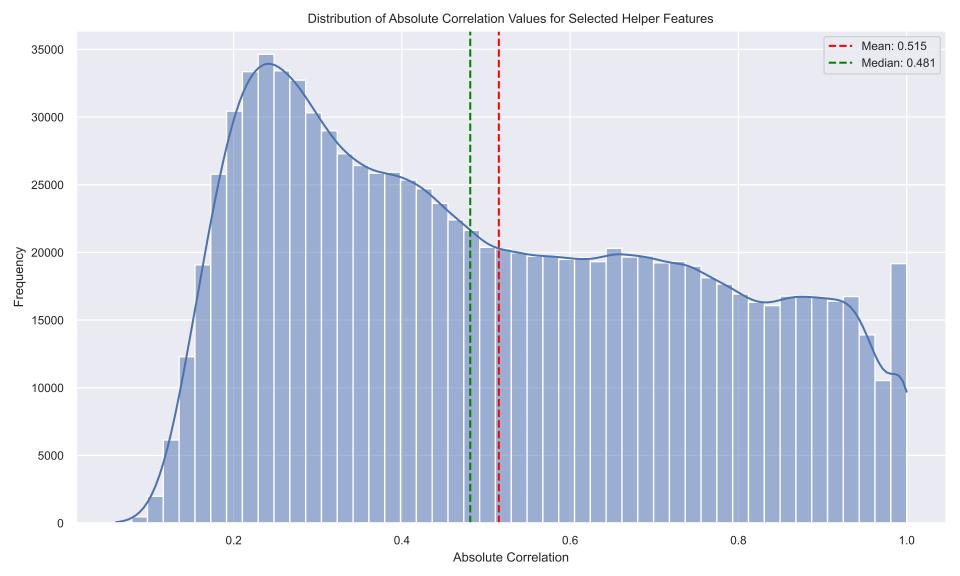
Helper Feature Selection Visualizations Factor Return Forecasting Project

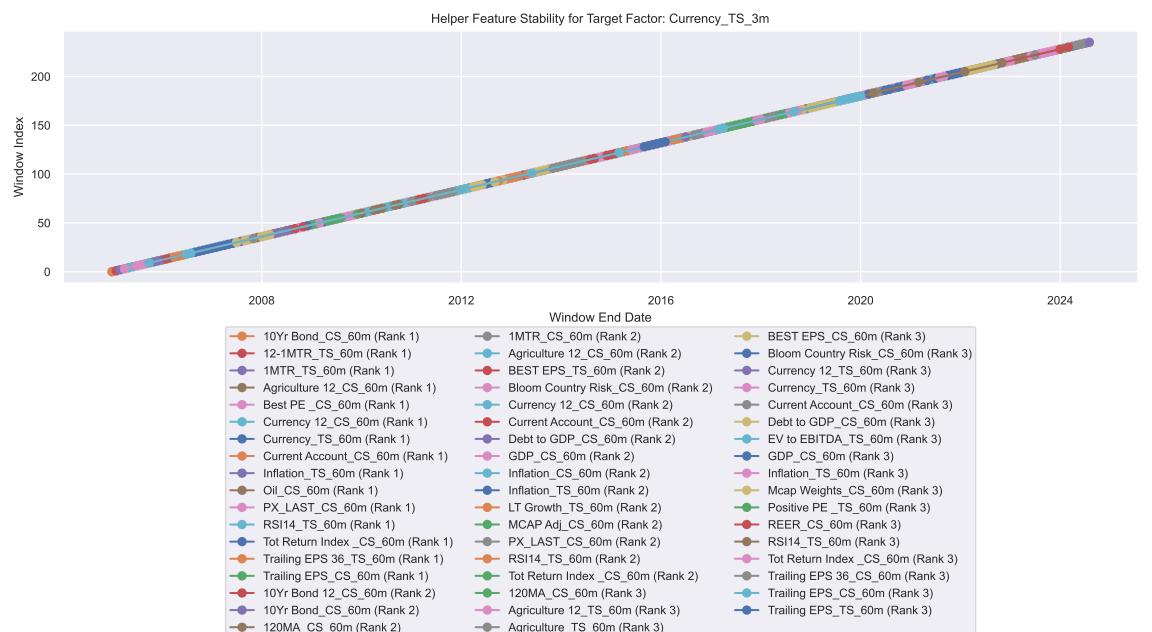
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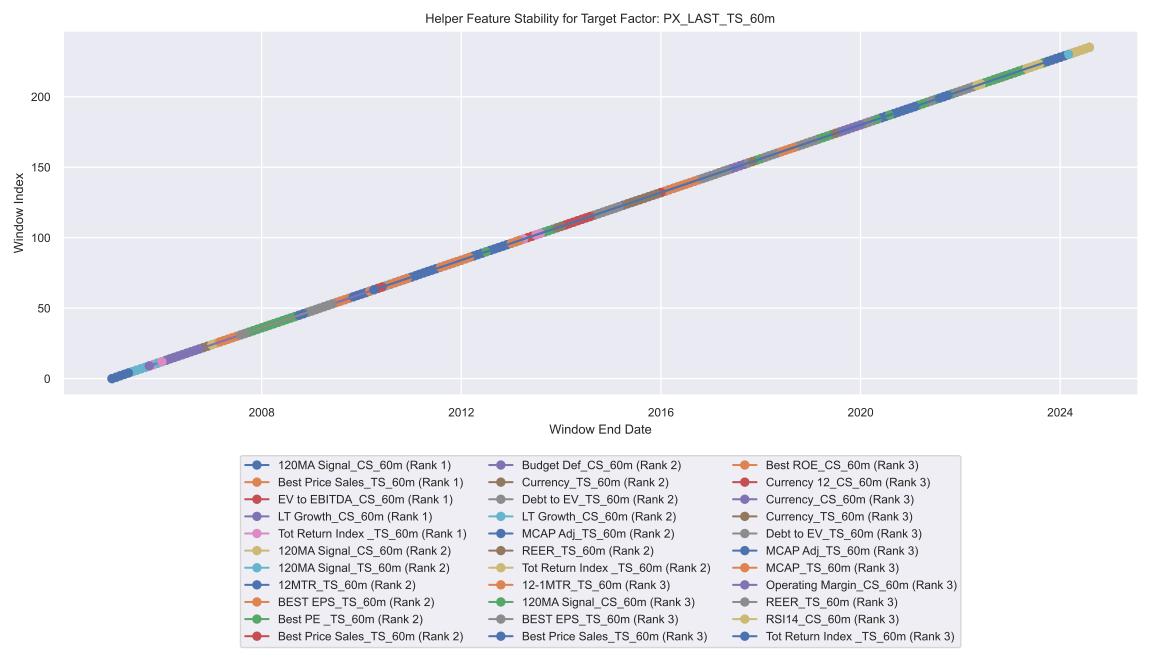
Total Windows: 236 Total Factors: 424

- 0.0

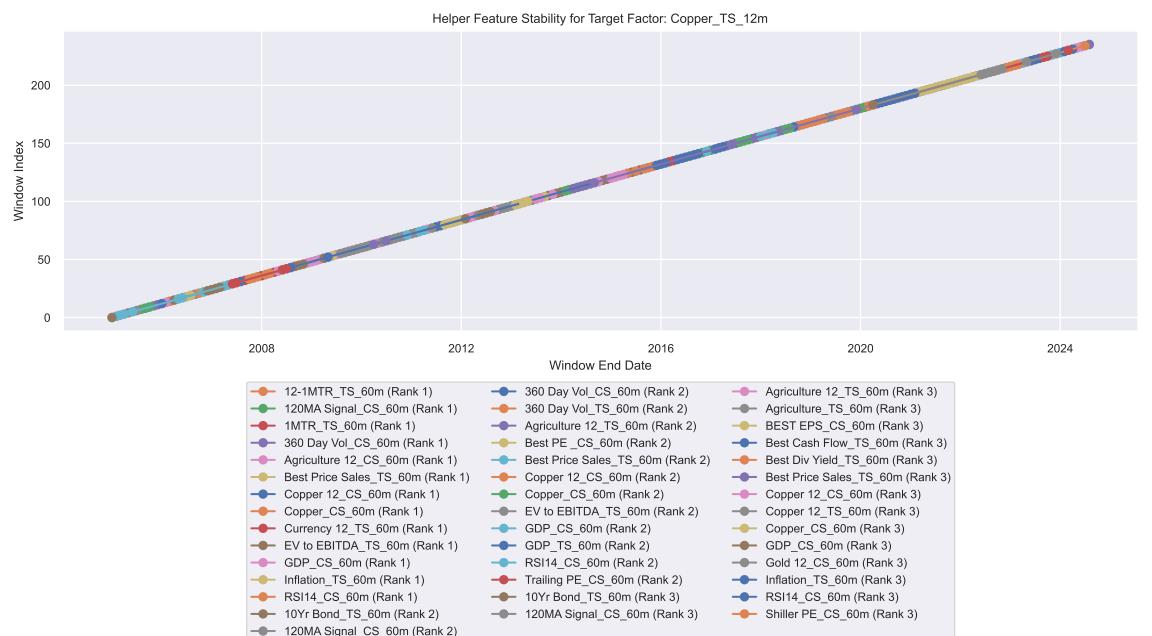
Helper Relationships for Window 119 (Sample of 30 Factors) MCAP Adj_CS_60m Best ROE_CS_12m LT Growth_CS **-** 0.8 Advance Decline CS 3m MCAP Adj_TS_60m PX_LAST_TS_3m Best PBK_CS_12m Trailing EPS 36_TS_3m Copper_CS_12m REER_TS_3m REER_TS_12m **-** 0.6 Operating Margin_CS Copper 12_CS_12m Helper Relationship Debt to EV_CS_12m 360 Day Vol TS BEST EPS_TS 3MTR_CS_3m GDP_TS_12m 1MTR_CS **-** 0.4 Currency Vol_CS_60m 120MA Signal_CS_3m 120MA Signal_CS_12m 1MTR_CS_3m PX_LAST_CS_60m Trailing EPS_CS_3m Budget Def_TS_12m 12MTR_CS **-** 0.2 BEST EPS_CS_12m PX_LAST_CS_12m 12MTR_CS_12m Currency Vol_CS_60m 120MA Signal_CS_3m 12MTR_CS BEST EPS_CS_12m PX_LAST_CS_12m MCAP Adj_CS_60m Best ROE_CS_12m LT Growth_CS Advance Decline_CS_3m MCAP Adj TS 60m PX_LAST_TS_3m Best PBK_CS_12m Trailing EPS 36_TS_3m Copper_CS_12m REER_TS_3m Operating Margin_CS Copper 12_CS_12m Debt to EV_CS_12m 360 Day Vol_TS BEST EPS_TS 3MTR_CS_3m GDP_TS_12m PX_LAST_CS_60m Trailing EPS_CS_3m Budget Def_TS_12m 12MTR_CS_12m REER_TS_12m 1MTR CS 120MA Signal_CS_12m 1MTR_CS_3m



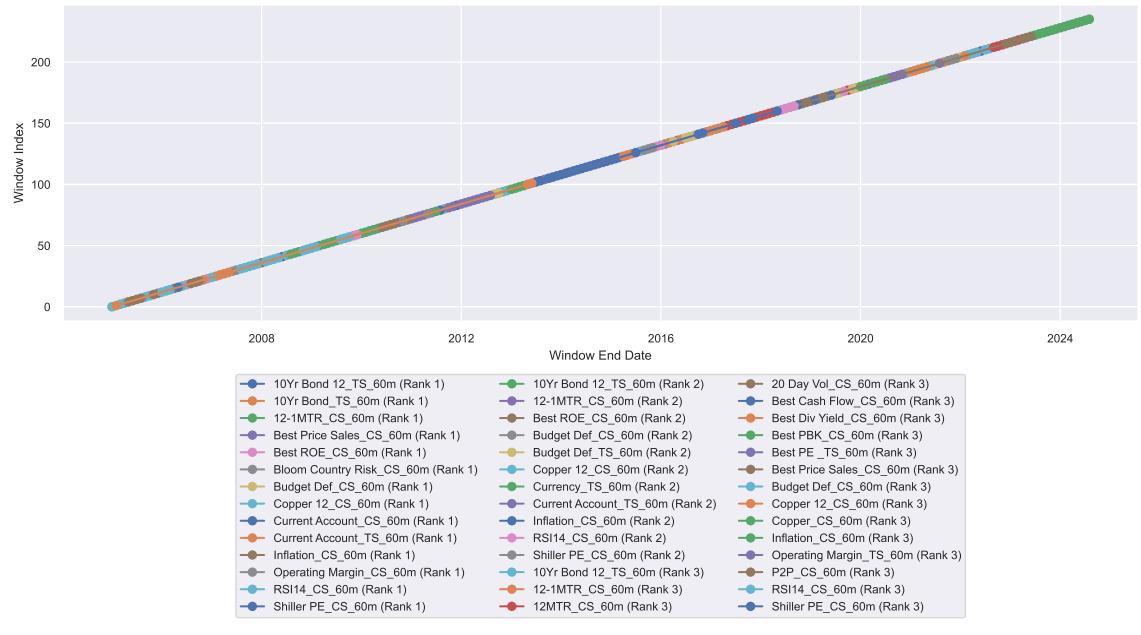


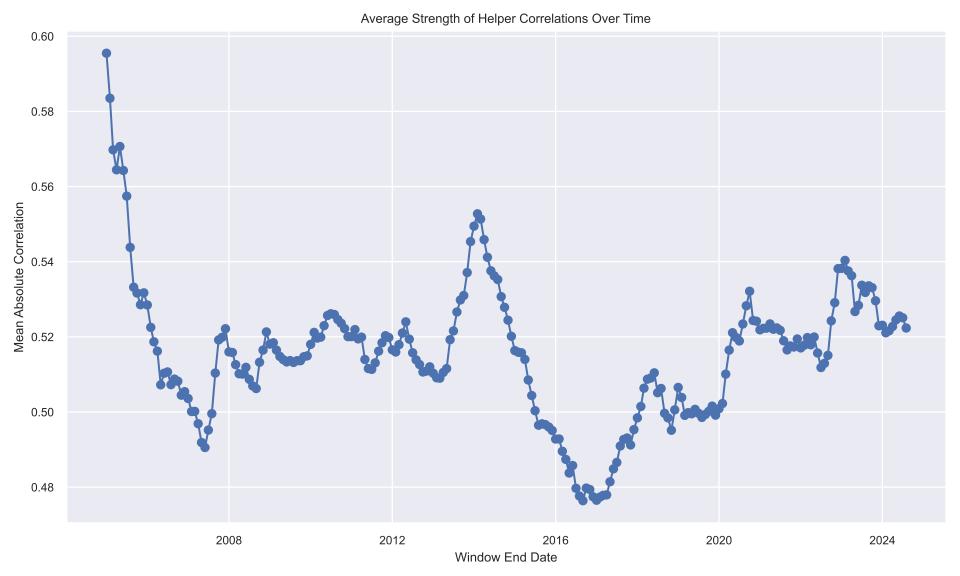












Summary of Helper Feature Analysis:

Total Windows: 236 Total Factors: 424 Helper Features per Factor: 10

Overall Correlation Statistics: Mean Absolute Correlation: 0.515 Median Absolute Correlation: 0.481 Min Absolute Correlation: 0.060 Max Absolute Correlation: 1.000

Top 5 Most Frequently Selected Helper Factors:

- 1. Agriculture 12_TS_60m (15005 times)
- 2. Copper 12_TS_60m (13603 times) 3. Trailing EPS_CS_60m (13498 times)
- 4. EV to EBITDA TS 60m (13305 times)
 - 5. MCAP Adj_TS_60m (13128 times)