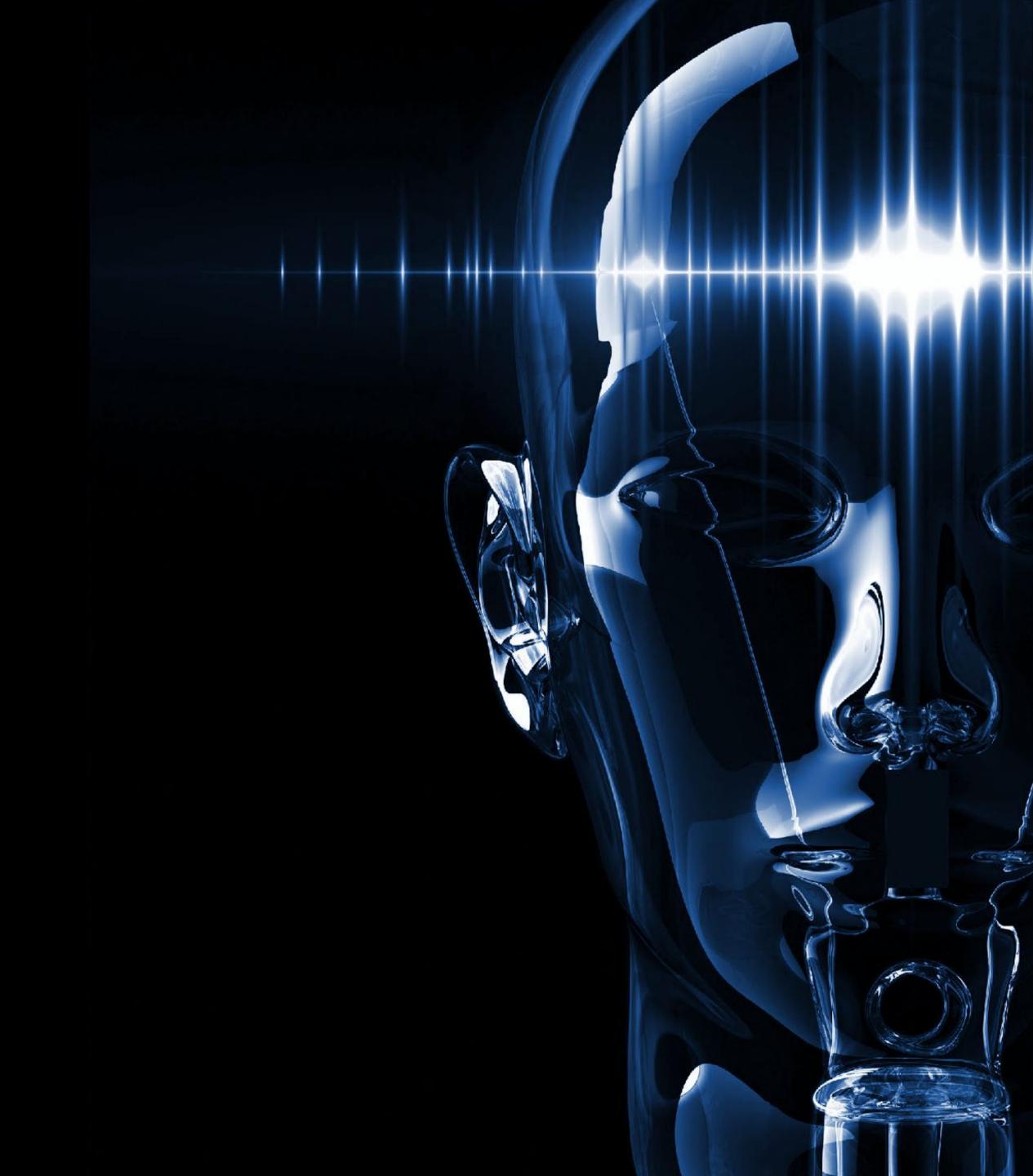


EMOTION AI PREDICTS CONSUMER PURCHASING INTENT

August 7, 2019



3RD PARTY VALIDATION OF COGNOVI'S SIGNALS



Cognovi's Emotion Al independently validate for its predictive power.

Cognovi Long by Cognovi Labs

COGNOVILADS

Performance 1/1/16 - 4/25/19

nvestment Approach

About Cognovi:

Cognovi Labs' Emotion AI quantifies consumer purchasing intent toward a company, brand, product or service. Cognovi's proprietary AI, at the intersection between machine learning and behavioral psychology, analyzes various text-based sources, extracts the emotional undertone and quantifies the consumer's next actions. Since 70-90% of people's decisions are based on emotions, Cognovi's behavioral factors go well beyond existing sentiment tools and provide predictive insights into future company sales and KPI performance.

Backtest: Cognovi Long

The portfolio's goal is to outperform the SPDR S&P Retail (XRT) in Total Return, and Sharpe Ratio, while maintaining lower volatility. The Cognovi Long portfolio is based on consumer intent and emotional scores generated by Cognovi. Additionally, moving averages and stability factors are calculated from these scores to construct a multi factor model geared to identify constituents for entry.

One additional volatility factor was added to the model to further ensure low vol constituents are selected.

Here is how the backtest is conducted:

- Each day we scan the Cognovi Universe (180 large cap consumer stocks) for constituents that match the criteria outlined above.
- We allocate the portfolio value equally among all the constituents.
- We hold the constituents as long as they satisfy the selection criteria.
- Transaction cost and slippage are considered.

Performance Versus Benchmark 1/1/16 to 4/25/19



	Strategy Overall	Bench Overall	Strategy TTM	Bench TTM
Abs. Return	66.25%	10.86%	14.54%	1.85%
Rel. Return	55.39%	N/A	12.69%	N/A
Beta	0.38	N/A	0.39	N/A
Std. Dev	0.78%	1.22%	0.82%	1.23%
Sharpe	1.30	0.26	1.11	0.19
Draw Down	-14.04%	-26.23%	-14.04%	-26.23%
IR	0.71	N/A	0.67	N/A
R ²	0.34	N/A	0.35	N/A

Historical Summary

	1 Yr	2 Yr	3 Yr	5 Yr	10 Yr
Ann. Return	14.54%	14.72%	16.31%	N/A	N/A
Std. Dev	0.82%	0.80%	0.77%	N/A	N/A
Ann. Volatility	13.03%	12.66%	12.15%	N/A	N/A

Cognovi Short by Cognovi Labs

Performance 1/1/16 - 4/25/19

cognovilabs

Investment Approach

About Cognovi:

Cognovi Labs' Emotion Al quantifies consumer purchasing intent toward a company, brand, product or service. Cognovi's proprietary Al, at the intersection between machine learning and behavioral psychology, analyzes various text-based sources, extracts the emotional undertone and quantifies the consumer's next actions. Since 70-90% of people's decisions are based on emotions, Cognovi's behavioral factors go well beyond existing sentiment tools and provide predictive insights into future company sales and KPI performance.

Backtest: Cognovi Short

The portfolio's goal is to outperform the Proshares TR/SHORT S&P 500 (\$SH) in Total Return, and Sharpe Ratio, while minimizing volatility and drawdown. The Cognovi Short portfolio is based on consumer intent and emotional scores generated by Cognovi. Additionally, moving averages and stability factors are calculated from these scores to construct a multi factor model geared to identify constituents primed for entry.

Here is how the backtest is conducted:

- Each day we scan the Cognovi Universe (180 large cap consumer stocks) for constituents that match the criteria outlined above.
- We allocate the portfolio value equally among all the constituents.
- We hold the constituents as long as they satisfy the selection criteria.
- Transaction cost and slippage are considered.

Performance Versus Benchmark 1/1/16 to 4/25/19



	Strategy Overall	Bench Overall	Strategy TTM	Bench TTM
Abs. Return	39.88%	-35.73%	26.64%	-9.33%
Rel. Return	75.61%	N/A	35.97%	N/A
Beta	0.84	N/A	0.76	N/A
Std. Dev	1.33%	0.81%	1.27%	0.94%
Sharpe	0.58	-0.97	1.27	-0.58
Draw Down	-19.71%	-41.28%	-11.03%	-19.82%
IR	1.36	N/A	2.00	N/A
R ²	0.26	N/A	0.31	N/A

Historical Summary

	1 Yr	2 Yr	3 Yr	5 Yr	10 Yr
Ann. Return	26.64%	12.80%	16.56%	N/A	N/A
Std. Dev	1.28%	1.20%	1.34%	N/A	N/A
Ann. Volatility	20.40%	18.97%	21.25%	N/A	N/A

Long Hit Rate*

59%

Short Hit Rate*

65%

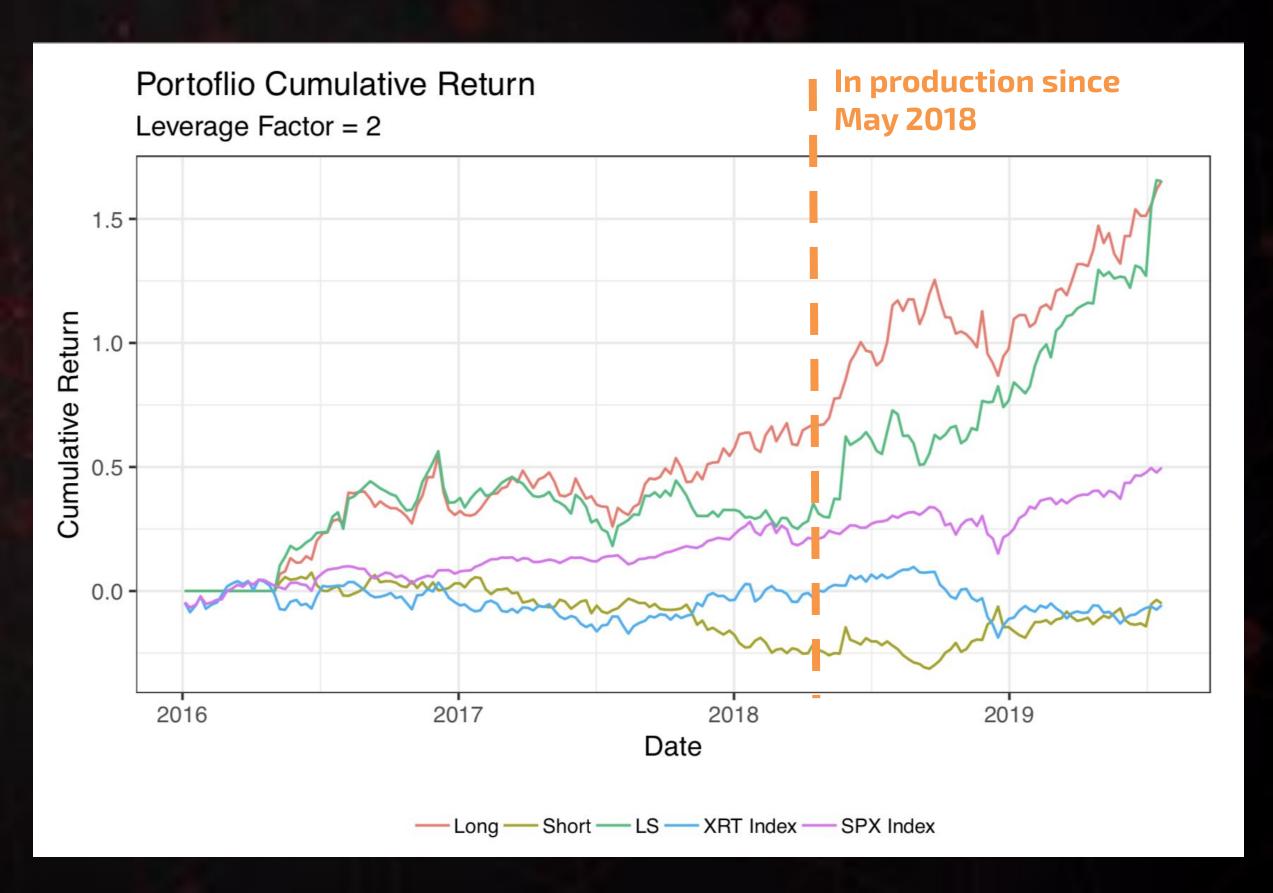
*Successful transactions after transaction cost and slippage.

ILLUSTRATIVE COGNOVI STRATEGY

Cognovi's internal analysis highlights the continued strong performance of its illustrative trading strategy even after going into production in May 2018.

Strategy is paper traded since May 2018.

	Long	Short	LS	XRT	SPX
Annualized Return	0.314	-0.014	0.313	-0.016	0.12
Volatility	0.203	0.191	0.225	0.177	0.118
Information Ratio	1.544	-0.075	1.395	-0.091	1.015



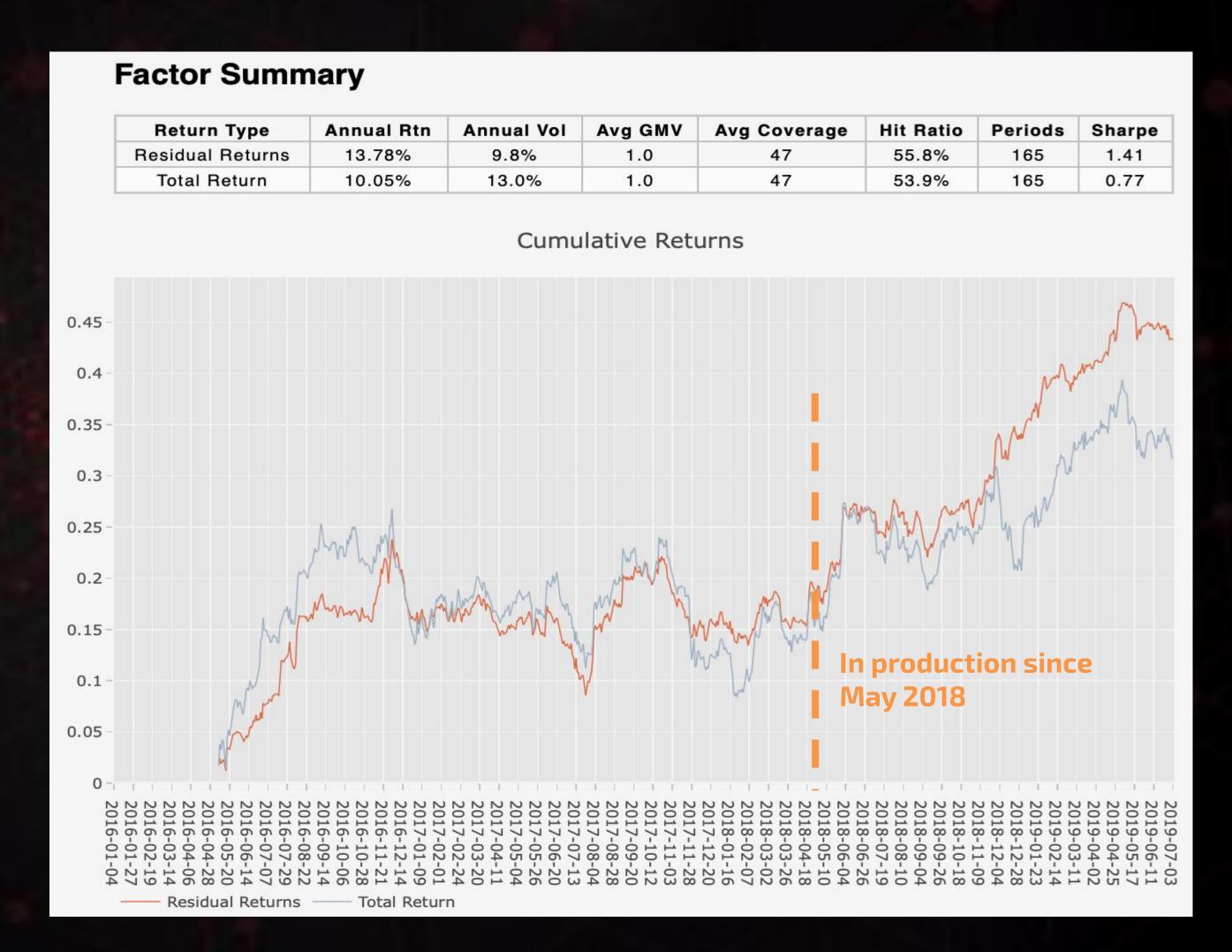
Weekly signals, trading Monday close to Monday close, no transaction costs or slippage, no risk control or portfolio optimization, Long-Short has 2x leverage (100% long/100% short)

VALIDATED ON 3RD PARTY PLATFORM

Illustrative Cognovi strategy performance confirmed, even stronger after correcting for the market and risk factors.

The analysis is generated on the Antenna platform by BAM Funds, incorporating Axioma's risk model.

Note that this performance is unlevered (50% long and 50% short exposure).



Weekly signals, trading Monday close to Monday close, no transaction costs or slippage, no risk control or portfolio optimization, Long-Short unleveraged (50% long/50% short)



CONTACT US

We are tackling the next challenge for data interpretation by making the intangible tangible. We'd love to show you how.

Contact us to talk about the predictive analytics landscape, Cognovi Labs' AI capabilities and solutions.

Headquarters

Cognovi Labs, Inc. 1330 Kinnear Road, Suite 200 Columbus, OH 43212

With offices in Dayton, OH, and New York City.

<u>cognovilabs.com</u> infoacognovilabs.com



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