

Brain Sentiment Indicator

Product Summary

Brain Sentiment Indicator monitors sentiment and buzz in public financial news for 10000+ global stocks, major commodities, forex and crypto from many thousands of financial media sources in 33 languages. An aggregation by sector is also available.

The sentiment scoring technology is based on a proprietary Large Language Model approach.

The sentiment score assigned to each asset is a value ranging from -1 (most negative) to +1 (most positive) that is updated with a daily frequency.

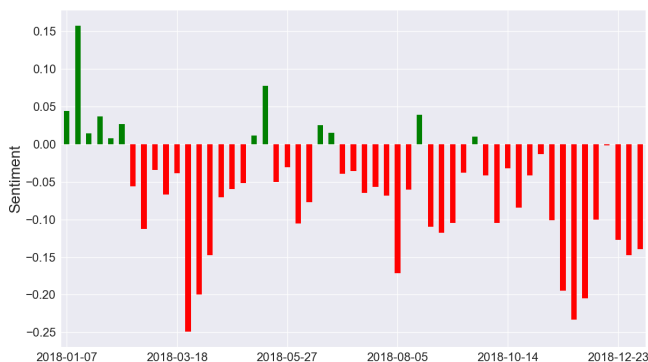
The sentiment score corresponds to the average of sentiment for each piece of news and it is available on three time scales; the previous day, the previous 7 days and the previous 30 days.

Methodology

1. Financial news is collected every few minutes from thousands of financial media sources in 33 languages via news aggregators
2. Brain Large Language Model evaluates the sentiment score on each news headline. The LLM-based approach has proven particularly effective for analysing complex news that discusses multiple assets or commodity news.
3. Daily, for each asset, news items are aggregated over various time periods to calculate both a "buzz" score and a sentiment score for the asset. News repetition is taken into consideration during this phase.

Example for One Stock

The following graph shows the sentiment score for *Facebook Inc.* stock for 2018. To be noted the negative peak in March 2018 corresponding to a large flow of negative news regarding the "Cambridge Analytica scandal".



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Delivery Settings

The sentiment data for each piece of news is averaged on three time scales: the previous day, the previous 7 days and of the previous 30 days. The data are exported daily and are available by 9:00 AM UTC on a dedicated S3 bucket. Historical data is available from 2016 onwards.

Example for Sectors

The sentiment of each sector is calculated as an average of the sentiment based on financial news of all stocks belonging to the sector. In the following plot we compared the strategy selecting the top three sector ETFs by sentiment (green line, label TOP_SENTIMENT) with the following three benchmarks:

- Each sector ETF with uniform weights (blue line, label UNIFORM)
- A standard momentum strategy with the top three sector ETFs that had the best return in the previous month (orange line, label MOMENTUM)
- strategy with the bottom three sector ETFs by sentiment (red line, label BOTTOM_SENTIMENT)

The top sentiment portfolio has a better performance in terms of Sharpe ratio (1.03) compared to the benchmark UNIFORM (Sharpe ratio 0.67), the benchmark MOMENTUM (Sharpe ratio 0.54) and the bottom sentiment strategy BOTTOM_SENTIMENT (Sharpe ratio 0.41) in the interval January 2017 - March 2024.



Contacts

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