

Sentikator Scope of Features

The Sentikator is a computer linguistic engine designed to calculably recognize, analyze and quantify emotions and content in texts. It allows extracting sentiment out of news, analyst recommendations, social media data, transcripts and various other sources. The Sentikator's range of functions was developed for sophisticated market participants such as hedge funds, trading firms, investment banks, algo traders as well as avant-garde asset and fund managers. The Sentikator aims to fulfill all the needs demanding clients have towards sentiment data.

Extensive scope of technical features for demanding clients

The Sentikator's technical features are primarily targeted at the needs of demanding customers in the financial industry. The Sentikator is optimized to produce comprehensible and predictable results and to deliver high quality, low latency data. Here some of the technical highlights:

Sentikator technical features

- Classification of content and emotions
- Text recognition and comprehension
- Analysis of relevance
- Analysis of topicality
- Frequency analysis
- Adaptive, self learning system
- Multilingual system
- Flexible input sources
- Pairing with a wide range of metadata
- Machine-readable outputs
- Low latency

Classification of content and emotions

The Sentikator can distinguish about 80 different categories of content and emotions and can precisely recognize these categories within texts. Categories of content are large topics such as economics, business, politics, family, nature and religion. Categories of emotion are for example anxiety, happiness, calmness, optimism and equanimity. Some categories of emotions are clustered into larger groups such as positive, neutral or negative emotions.

Advanced text-recognition

The Sentikator can not only identify context but even achieves a high degree of text comprehension. By means of its Natural Language Processor, a form of artificial intelligence, the system understands the

structure of sentences, grasps even complex grammar and identifies the prevailing topic within larger texts. Persons, locations, numerical information such as dates, prices, weights and even smileys can be distinguished by the system.

Analysis of relevance

Based on the categories of content and the categories of emotion complete texts, sections, sentences or even words can be precisely classified. By means of maximum-likelihood measurements a probability is calculated of how well text elements fit into the different categories. A multivariate probability model then determines the relevance of the text or certain sections to the topic of interest or to important keywords.

Analysis of topicality

The Sentikator can accurately locate the predominant theme as well as sentences or sections of central importance within texts. These elements are compared to elements in internal and external databases. The frequency of similar or equal matches allows for a statement about the topicality of these elements.

Frequency analysis

The frequency of certain keywords or key sections of texts allow for valuable conclusions about the importance of central issues and the evolution of these issues over time. The Sentikator provides smart search patterns for these keywords and can group the results according to relevance, importance and time. This functionality goes way beyond simple word counts and facilitates comprehensive opportunities for in-depth analysis.

Intelligent and self learning system

Hardly any part or functionality of Sentikators is rigid and carved in stone. Hand in hand with our customers we develop solutions for the effective use of the Sentikator. We customize content and emotion categories so that the most meaningful results are achieved.

Sentikator

Developed by Schmitt, Post & Partner

For special purposes we can easily add new categories that are not yet processed but are relevant to our customers. The Sentikator is easily scalable and expandable, even while operating. A learning unit based on artificial intelligence ensures that the Sentikator continuously improves itself if this should be desired by the customer.

Pairing with metadata

The Sentikator realizes its full effect when paired with a large variety of meaningful metadata. Sentiment data can be matched with instrument codes or tickers. This allows for capturing parallels and correlations between sentiment time series and prices. Other possible metadata are fundamentals, ad-hoc news, events and much more.

Multilingualism

The Sentikator can currently analyze a total of 10 different languages. Additional languages can be implemented upon request.

Flexible input and output sources

The Sentikator does not rely on special input formats. A flexible interface ensures compatibility to virtually any data source. Incoming data and texts are automatically transliterated into a machine-readable format and then analyzed. The output is available in a variety of formats as well and can be adapted to customer requirements. Usually, the machine-readable data is delivered in a Json stream, or in binary format and distributed multicast. Other outputs such as XML or RSS feeds, CSV spreadsheets or even finished graphics are possible.

Low Latency

The Sentikator is optimized for low latency purposes. It is thus usefully applicable for time-sensitive users as well as for users with a longer time horizon. For users in the high-frequency sector there is a possibility to install an optimized version of the Sentikator directly on the collocation.

Products and fields of application

The Sentikator provides valuable insights into a variety of economic and financial topics. Subscribers have a wide range of packages to choose from that give access to all levels of the value chain. Raw sentiment data, preprocessed raw data as well as preprocessed sentiment data can be obtained. Currently, the following three sentiment indices are computed in real time and made available to subscribers:

- **German Equity Sentikator:** This index captures the sentiment of the 29 largest listed German companies and aggregates them in on continuous time-series.
- **German Economy Sentikator:** This index provides real-time data on the German business climate and the consumer confidence. This index measures the consumer and business expectations based on individual opinions of approximately 5% of the German population and aggregates them in one continuous time-series.
- **Bitcoin Sentikator Index:** This index measures the sentiment of the digital crypto-currency Bitcoin. Opinion- and news flows on Bitcoin are collected, analyzed for the underlying sentiment, aggregated in a continuous time series and compared with the price movement of Bitcoin on different exchanges. The Bitcoin Sentiment Index is used for automated trading systems.

Available services

We believe that the key advantage of the Sentikator is not only the computer linguistic engine but our ample service package, the scalability and flexibility of our system, our extensive technical support as well as our desire to listen to – and to learn from – our customers. You can rely on these services:

- **Customization:** You determine which data you wish to receive, which input sources and output feeds you want and we make that possible.
- **Analysis:** You should get the maximum mileage out of our data. We support you in the analysis and in fully understanding the data feed you attain.
- **Programming:** You can profit from our experience in integrating our data in new and existing applications and in the development of trading algorithms.
- **Research:** Extend your financial research and publish our thorough white label research reports about market sentiment issues under your name.

Questions?

Do you wish to get to know our service? A 30-day free, no obligation trial is available upon request.

Do you have any questions or suggestions? We are happy to assist you. For more information call +49-208-37779899 or e-mail to office@sentikator.com.