coinformator

Multifunctional Cryptoplatform

Value for clients

Rapid development of the crypto industry makes understanding of many features and dealing with the market too complex. Our platform is aimed to organize heterogeneous information and provide convenient way for navigation in 'crypto-world'. We propose a system for real-time collection, processing and representing information on cryptocurrencies, crypto industry and market, ICO; operations with ICO tokens and trading using facilities within the platform; user announcements promotion and other features.

Brief description

Multifunctional platform consists of several core blocks:

- News aggregator with facilities for news analysis,
- Complex of ICO services and rating system,
- Tools for monitoring cryptocurrency markets in real-time with prediction and trading tools,
- Advertisement features for targeted promotion of customers' solutions.

The tools of the platform are based on modern machine learning and data analysis algorithms, including contemporary tools for heterogeneous data processing. Data is collected from open APIs of internet sites and mass-media publications. Data processes consists of several data processing steps: deduplication, sentiment analysis, keywords and their collocations extraction, etc. Prediction models include multi-factor regressions and neural networks, discriminant analysis and high quality metrics of the predictions models.

Aggregator of news and analytical information

Our news aggregator interface is a customizable dashboard, which provides fast and convenient way to obtain information about a wide range of topics on crypto economy, cryptocurrencies and crypto solutions for real economy. The system crawls news and different open-source analytical reports including:

1. Textual information from websites connected to Natimatica Publishers Network. List of websites in this network includes more than 100 news and analytical resources.
2. News and analytics publications from external web sites,
3. Textual information from web forums,
4. Twitter posts,
5. Telegram channels

User interface methods includes:

1. News and analytical feeds on different topics
2. Search interface, including approximate search (for information retrieval in user-made content)
3. Content taxonomy system with clusterization by multiple dimensions: time periods, topic, content semantics, etc. The system uses novel approaches, such as consensus clustering, fuzzy clustering (FADDIS method), probabilistic topic modelling.
4. Customizable micro-dashboards, which are represented by tabs devoted to subjects chosen by a user. Presets of tabs are also available: information about particular currencies, companies, updatable set on chosen search query etc. Filters can be allied to information: dates, keywords, topics.

Services for operations with ICO

A waterfall increase in ICO number and their varieties make their handcraft analysis very costly and almost impossible. Our service offers a tool for tracking status of current ICO, rating evaluation and quality for those which are closed. We offer user-adjustable tools, what includes.

1. Dashboard with aggregated information about closed, open and preparing ICO.
    a. Every ICO is described with an information card, which includes:
        i. site, profiles in social networks
        ii. expected (for non-closed) or achieved results (for closes ICO).
    b. Publications about every ICO, analytics.
    c. Every ICO is characterized by news inflow, and open-source information from different sources.
    a. Real-time comparison of an ICO with comparable closed ones.

2. We plan to suggest a tool for dynamic ICO evaluation based on real-time information. We will use Hype score (frequency of mentioning in mass-media), Risk score (probability of failure of a project) и Invest score (a forecast for expected profitability). Evaluation follows a specially design method. Every feature of ICO is measured either by a nominal (0-100) or by a binary (0/1) scale, which are then rescaled a by WoE (Weight of Evidence) method. This method combines rescheduling and path-dependence of historic data.

   We use historical data for training machine-learning algorithms. Our forecasting algorithms are based on:

   i. The algorithm supports incomplete information cases, as ICO do not have a standard feature list.

   ii. The algorithm uses Occam razor principle to minimize a number of parameters for final metrics

   iii. The algorithm minimizes discrepancy between a training set and observations. .

   iv. Quality of result is measured using standard tools as p-value, Gini coefficient, Wald criterion, we also plan to include bootstrap testing.

   v. We use both plan to implement traditional and novel tools for data mining and machine learning, what includes multiple logistic regression, CatBoostClassifier (by Yandex), what is expected to improve quality of forecasts

3. Tools for operations with ICO.
   a. Tools for ICO: for issues, for investors.
   b. Service for token trading: secondary market, auctions, etc.

Real-time cryptocurrency market information, forecasting and trading tools

Interface of the platform consists of a set of adjustable dashboards with top-capitalization currencies, each represented with graph with basic graphic facilities. We propose tools based on information extracted what includes.

1. Natural text processing and signal extraction unit. This unit accumulates, and processes news and trading signals to extract economic signals. The unit takes heterogeneous information as news and time series or indices, security prices, market indices etc. News information is processed by specially designed natural language processing unit, which expands them into computer linguistic concepts, as subject, object, modality, timing, framing etc. For this purpose we are developing a data training set of around 150K texts, each labeled using the suggested methodology using Yandex.Toloka. This set of data will be used for training a recurrent neural network. We expect that this system will be able to make real-time economic signal extraction from news and economic data.

2. Forecasting long-run trends in cryptocurrencies/tokens; forecasting is based on real-time news and economic/financial statistics.

3. Trading tools include advisory and transaction facilities. Advisory tools include modern methods of random graph theory and contemporary developments of stochastic process theory applied to existence of triangle arbitrage properties of high-frequency trade.

Advertisement features for targeted promotion of customers campaigns

The platform provides functionality to promote ICO announcements and other customers' information by dint of Natimatica advertising technologies. Targeting features includes textual, behavioral, latent relations methods, etc. using Natimatica traffic as well as external resources. In this way system allows high-targeted informing and demonstrates fine conversions.

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