**Implementation of Sutte Indicator to Predicting Movement of Stock of Apple Inc.**

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**Abstract.** The abstract needs to summarize the content of the paper. The abstract should contain at least 70 and at most **150 words**. Font size should be set in 9-point and should be inset 1.0 cm from the right and left margins. A blank (20-points) line should be inserted before and after the abstract.

**Keywords:** Apple Inc., Stock Market, Sutte Indicator, Technical Analysis.

**1 Introduction**

Stock trading is an economic activity that requires high accuracy in its application. In stock trading, there are many methods used to obtain the maximum benefit. From many methods used sometimes there are methods that do not provide maximum benefit and sometimes even disadvantages. Stock trading is related to the condition of the country where the company's stock are. For example Astra Agro Lestari (AALI) is in Indonesia, in the event of a crisis in Indonesia, it will potentially lead to stock price of Astra Agro Lestari will be down drastically. To see the movement of a stock is going through a time up trend or down trend then used the name technical indicator. Technical indicators related to the stock movement chart. The main component of the formation of the stock movement chart consists of 5 component of price is open, high, low, close, and volume of transactions.

**2 Material and Methods**

There are several types of indicators including: Stochastic, MACD and Bollinger Bands [1], Moving Avarage [2], and Relative Strength Index (RSI) [3]. This research will use a new indicator developed by Ahmar i.e. Sutte Indicator (SUTTE) [4]. Sutte Indicator is technical indicators developed by considering the stock price at the time of opening, closing, highest and lowest. Sutte Indicator will form two graphs that show stocks when looking for suitable stock buy and when to sell. This graph is intended to provide a signal to investors to get maximum profit with minimal losses. In predicting stock, Sutte indicators will be compared with other technical analysis is Simple Moving Average (SMA) dan Moving Average Convergence/Divergence (MACD). The formula SUTTE, SMA and MACD are presented as follows.

**2.1 Headings, tables and figures**

**Headings.** Perhatikan format berikut untuk petunjuk penggunaan tabel lihat contoh Table 1.

**Tables.** Semua tabel yang disertakan harus dirujuk dalam teks utama dan judul tabel harus diposisikan di atas tabel. Judul dan teks dalam table dituliskan dalam Times New Roman, 9pt.

**Table 1.** Comparison of Reliability of SUTTE, SMA, dan MACD

|  |  |  |
| --- | --- | --- |
| Indicator | MSE | MAD |
| SUTTE | 1,385 | 0,832 |
| SMA | 2,590 | 1,090 |
| MACD | 14,670 | 2,952 |

**Figures.** Gambaryang bisa dimasukkan adalah gambar yang berekstensi .jpg atau .png and mesti dimasukkan ke dalam text, sebagai contoh lihat **Figure 1. [1]** dengan Times New Roman 9pt.



**Fig. 1.** Movement of Stock of Facebook Inc. 26 September 2014 – 10 November 2014

**2.2 Persamaan, rumus, dan code program**

**Persamaan dan rumus.** Semua persamaan dan rumus harus dirujuk dalam teks menggunakan nomor yang berurutan dalam tanda kurung, lihat persamaan (1) sebagai contoh. Persamaan atau rumus yang ditampilkan harus dipusatkan dan disetel pada baris terpisah dengan ruang ekstra di atas dan di bawah dan ditulis dalam Times New Roman 9pt.

a + b = c . (1)

 Persamaan dan rumus harus diselingi dengan cara yang sama seperti teks biasa tetapi dengan spasi sebelum tanda baca.

**Code.** Listing program atau perintah dalam teks diatur dalam font mesin ketik Program listings or commands in the text are set in typewriter font (CMTT10 or Courier) and disebutkan dalam teks.

Example of a Computer Program from Motaz Abdel A., (2013) Start programming using Object Pascal. Legally Free Computer Books, US.

program Project1;

{$mode objfpc}{$H+}

uses

{$IFDEF UNIX}{$IFDEF UseCThreads}

cthreads,

{$ENDIF}{$ENDIF}

Classes { you can add units after this };

{$IFDEF WINDOWS}{$R project1.rc}{$ENDIF}

begin

end.

**3 Results and Discussion**

Based on the information stating that the research variables are comprised of 8 independent variables, the model formed was FFNN with eight units of neurons in the input layer, 17 units of neuron in the hidden layer and 1 unit of neuron in the output layer. Meanwhile, the activation function used in the hidden layer and output layer was binary sigmoid (sigmoid logistic).

**3.1 Data Set**

The raw data received from the data of student satisfaction, and choosing of the parameters to be analyzed. The parameters is taken an attribute before made by class or label "satisfied" and "dissatisfied" attribute will be the parameter or variable input. The Data Student Satisfaction In computer lab AMIK Labuhan Batu explained that Primary data student has done filling questionnaire on student satisfaction AMIK Labuhan Batu on means computer labs, attributes supporting facilities is the attribute to the category of facilities (Good) when expectations have been met, and the label will answered by students if all the attributes answered by whether students feel "satisfied" or "dissatisfied" in supporting facilities, computer labs, are interested to come back

**4 Conclusion**

The estimation of a model for classifying the contract of Diabetes Mellitus uses FFNN model with binary sigmoid activation function. GUI application applied can be used for detecting the contract of Diabetes Mellitus with an accuracy level of 92.44%. This GUI can be used as an early warning diabetes mellitus in medical report.

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**References**

Gunakan Aplikasi Mendeley

Jumlah referensi Minimal 15 jurnal, cantumkan no. doi

[1] Somov, A.: Judul artikel. Prosiding EAI mengenai Pemrogram Komputer. pp. 1-11 (2011)

[2] Motaz, A.: Pengenalan Pemrograman Web. Vol. 2, pp. 10-11. Penerbit A, Indonesia (2013)

[3] Somov, A.: Judul artikel. Jurnal ABCD. pp. 1-11. doi: xxx (2011)