BAB V

SIMPULAN DAN SARAN

5.1 Simpulan

Pemamfaatan Algoritma kecerdasan buatan seperti Linear Regression untuk pengembangan indikator pada Platform seperti TradingView dapat membantu mempermudah untuk identifikasi tren, meningkatkan efektifitas lebih dari 70% dalam membuat keputusan untuk Trading/Investasi yang lebih terstruktur. Dalam penelitian ini dijelaskan bagaimana Indikator berbasis PineScript pada platform TradingView dapat dioptimalkan dengan adanya penerapan algoritma Regresi Linear. Selain itu Indikator juga dapat dikonfigurasi menyesuaikan keinginan user, dapat digunakan diberbagai kondisi pasar maupun berbagai jenis instrument seperti Saham, Forex, dan Crypto. Namun dalam penelitian ini juga menekankan bahwa penggunaan Algoritma Kecerdasan Regresi Linear bukanlah solusi akhir, tetapi Langkah pertama untuk dapat berkonstribusi dalam pengembangan Indikator berbasis PineScript dalam pengembangan solusi yang lebih baik dimasa mendatang.

5.2 Saran

Ada pula hasil yang didapat dalam penulisan skripsi ini, maka diperoleh saran untuk pengembangan indikator agar lebih baik adalah sebagai berikut:

a) Membuat sistem Kelola data hasil analisa yang dapat di akses di aplikasi tersendiri
b) Membuat sistem yang dapat di intergrasikan dengan berbagai Platform Trading
c) Membuat intergrasi berbasis algoritma kecerdasan buatan lainnya untuk dapat hasil lebih maksimal

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Agama	:	Buddha
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Pendidikan Formal

2005 - 2011	:	SD Dharma Putra
2011 - 2014	:	SMPN 10 Tangerang
2014 - 2017	:	SMK Bhakti Anindya
2017 - Sekarang	:	Universitas Buddhi Dharma, Teknik Informatika, Jaringan

Pengalaman Kerja

2017 - 2018	:	Intern Accounting Control, PT. Bank Tabungan Negara (Persero) Tbk
2018 - 2019	:	IT Support, PT. Fokus Vision Teknologi
2019 - 2021	:	Graphic Designer, PT. Sharprindo Dinamika Prima
2021 - Sekarang	:	Staff Support, PT. Sharprindo Niaga Indonesia
2021 - Sekarang	:	Crypto Specialist, Equifon Ventures Capital
2021 - 2022	:	Crypto Ambassador SEA, Bybit
2022 - Sekarang	:	Data Analyst, CV. Mitra Western Electronics

Tangerang, 1 Agustus 2024

Alfonsius Egi Wijaya

Lampiran 1: Kartu Bimbingan

KARTU BIMBINGAN TA/SKRIPSI

NIM	: 20171000027
Nama Mahasiswa	: ALFONSIUS EGI WIJAYA
Fakultas	: Sains dan Teknologi
Program Studi	: Teknik Informatika
Jenjang	: Strata Satu
Tahun Akademik/Semester	: 2023/2024 Genap
Dosen Pembimbing	: Hartana Wijaya, M.Kom
Judul Skripsi	: MENGEMBANGKAN INDIKATOR TRADINGVIEW BERBASIS PINESCRIPT DENGAN ALGORITMA MULTIPLE LINEAR REGRESSION UNTUK IDENTIFIKASI TREND DALAM TRADING FOREX, SAHAM, DAN CRYPTO

Tanggal	Catatan	Paraf
2024-04-08	Pengajuan Judul	
2024-04-26	Acc Judul Skripsi	
2024-06-19	Revisi Bab I dan Bab II	
2024-06-24	Acc Bab I dan II, Lanjut Bab III	
2024-06-25	Lanjut Bab III dan IV	
2024-06-26	Revisi Bab III dan Bab IV	
2024-07-01	Revisi Bab III dan Bab IV	
2024-07-03	Acc Bab III, Revisi Bab IV, V	
2024-07-04	Acc Bab IV, V	
2024-07-09	Revisi Sofcover	
2024-07-18	Acc Softcover	

Mengetahui
Ketua Program Studi

Hartana Wijaya, M.Kom

Tangerang, 15 August 2024
Pembimbing

Hartana Wijaya, M.Kom

Lampiran 2: Formulir *Requirement Elicitation* Melalui Google Form 1

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

elenavnewgate@gmail.com

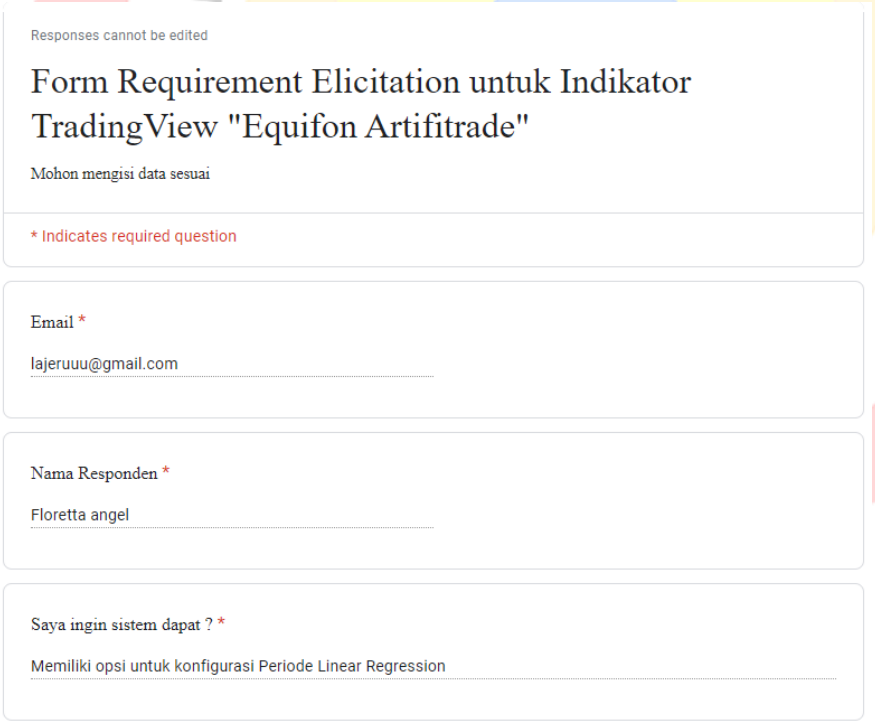
Nama Responden *

Elena

Saya ingin sistem dapat ? *

Melakukan prediksi harga terbaik untuk melakukan Long Buy / Short Sell

Lampiran 3: Formulir *Requirement Elicitation* Melalui Google Form 2



Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

lajeruuu@gmail.com

Nama Responden *

Floretta angel

Saya ingin sistem dapat ? *

Memiliki opsi untuk konfigurasi Periode Linear Regression

Lampiran 4: Formulir *Requirement Elicitation* Melalui Google Form 3

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

claraangelsan@gmail.com

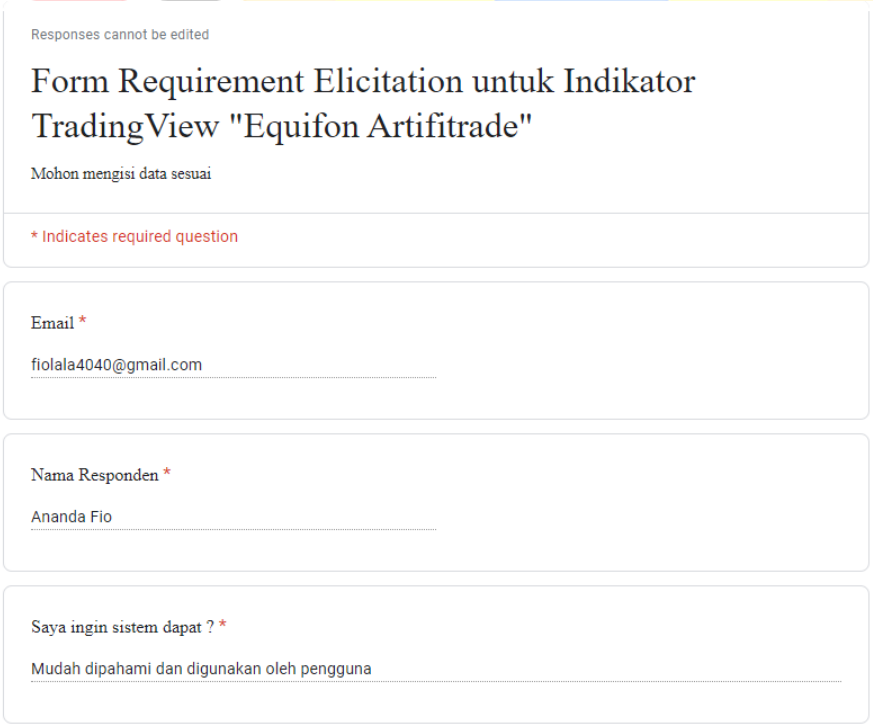
Nama Responden *

Clara

Saya ingin sistem dapat ? *

Memiliki opsi untuk ubah tampilan hasil prediksi

Lampiran 5: Formulir *Requirement Elicitation* Melalui Google Form 4



Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

fiolala4040@gmail.com

Nama Responden *

Ananda Fio

Saya ingin sistem dapat ? *

Mudah dipahami dan digunakan oleh pengguna

Lampiran 6: Formulir *Requirement Elicitation* Melalui Google Form 5

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

neuralgird04@gmail.com

Nama Responden *

Bayu

Saya ingin sistem dapat ? *

Memudahkan dalam melakukan analisa ragam instrument pasar modal

Lampiran 7: Formulir *Requirement Elicitation* Melalui Google Form 6

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

diegodigoreng@gmail.com

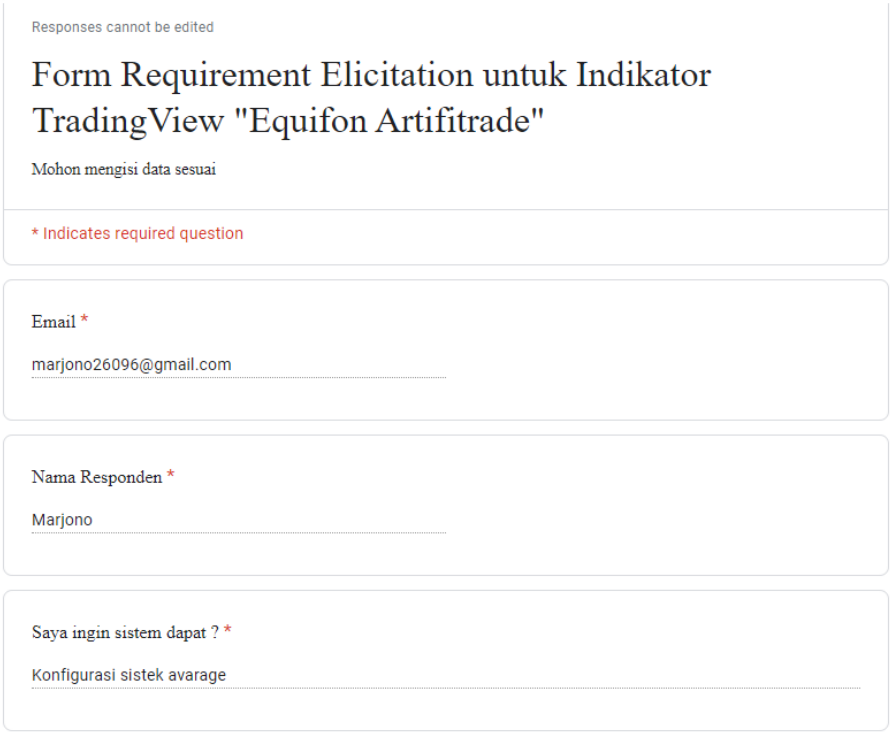
Nama Responden *

Diego

Saya ingin sistem dapat ? *

Menampilkan harga untuk beli / jual

Lampiran 8: Formulir *Requirement Elicitation* Melalui Google Form 7



Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

marjono26096@gmail.com

Nama Responden *

Marjono

Saya ingin sistem dapat ? *

Konfigurasi sistek avarage

Lampiran 9: Formulir *Requirement Elicitation* Melalui Google Form 8

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

charizardxyzab@gmail.com

Nama Responden *

Yayan Rahmat Adianto

Saya ingin sistem dapat ? *

Indikator bisa digunakan untuk Analisa Bitcoin dan Saham

Lampiran 10: Formulir *Requirement Elicitation* Melalui Google Form 9

Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

risus.kurogames@gmail.com

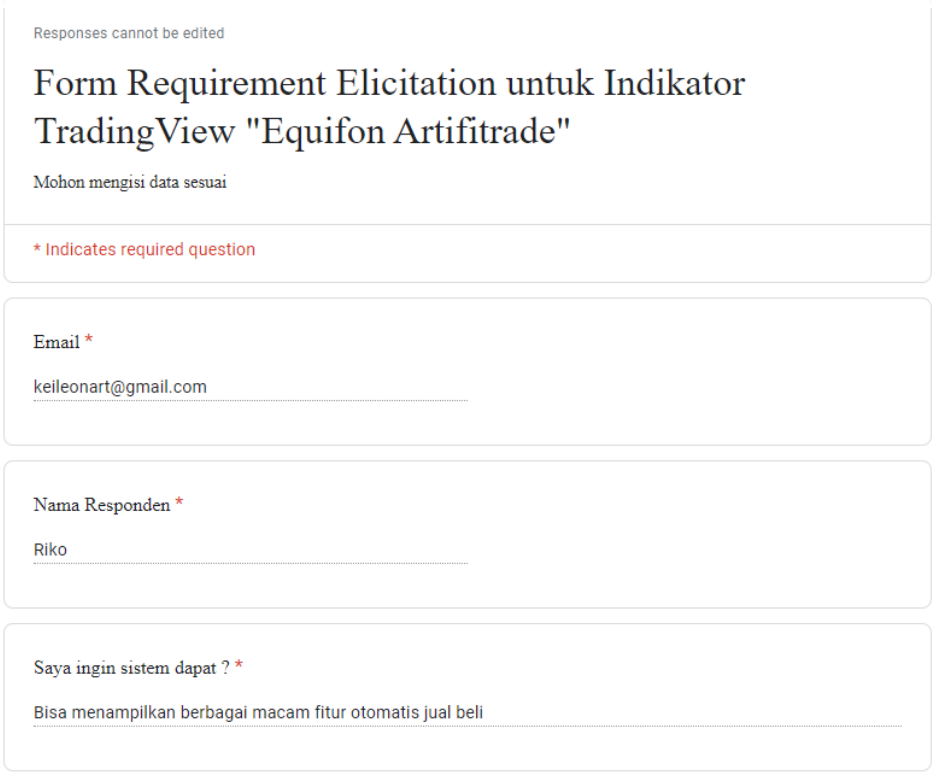
Nama Responden *

David

Saya ingin sistem dapat ? *

Indikator bisa untuk analisa Forex terutama XAUUSD / Emas

Lampiran 11: Formulir *Requirement Elicitation* Melalui Google Form 10



Responses cannot be edited

Form Requirement Elicitation untuk Indikator TradingView "Equifon Artifitrade"

Mohon mengisi data sesuai

* Indicates required question

Email *

keileonart@gmail.com

Nama Responden *

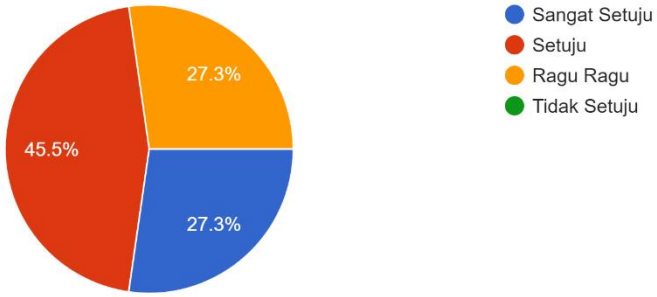
Riko

Saya ingin sistem dapat ? *

Bisa menampilkan berbagai macam fitur otomatis jual beli

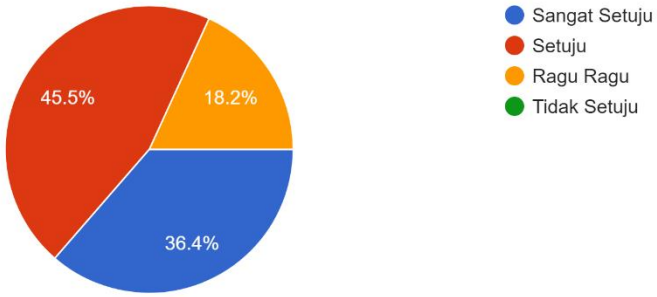
Lampiran 12: Hasil Formulir Melalui Google Form 1

Tampilan visual yang ditampilkan mudah di mengerti.
11 responses



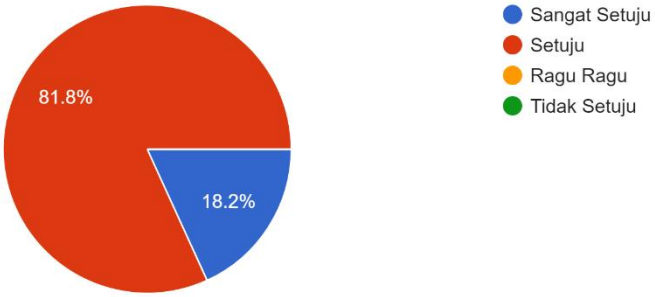
Lampiran 13: Hasil Formulir Melalui Google Form 2

Indikator mudah untuk digunakan.
11 responses



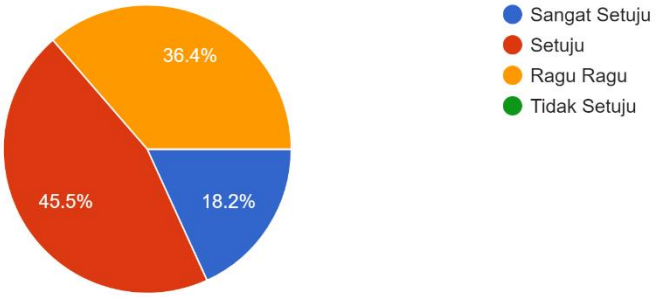
Lampiran 14: Hasil Formulir Melalui Google Form 3

Saya puas dengan indikator TradingView ini.
11 responses



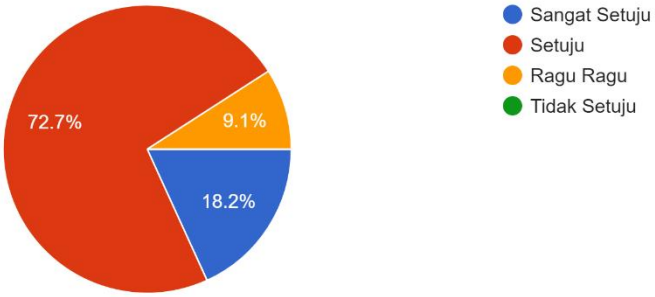
Lampiran 15: Hasil Formulir Melalui Google Form 4

Dengan adanya indikator ini, saya mendapatkan analisa yang tepat.
11 responses



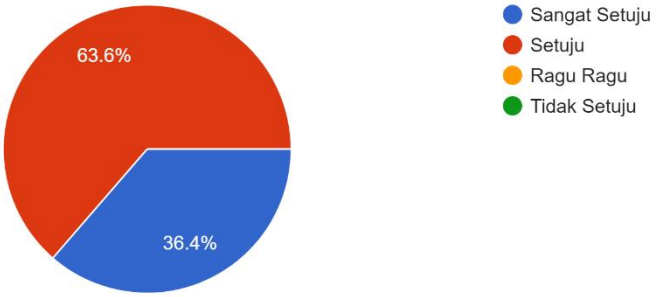
Lampiran 16: Hasil Formulir Melalui Google Form 5

Sistem indikator ini menyediakan analisa yang saya butuhkan.
11 responses



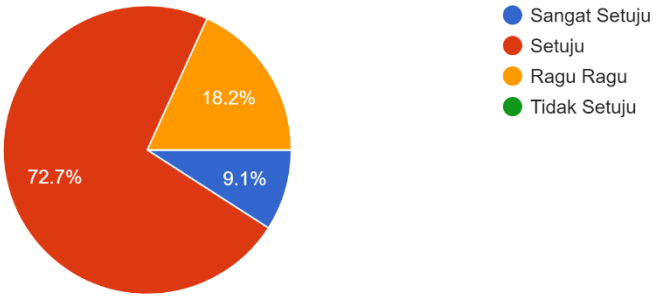
Lampiran 17: Hasil Formulir Melalui Google Form 6

Secara keseluruhan, saya merasa bahwa indikator ini memberikan manfaat untuk saya.
11 responses



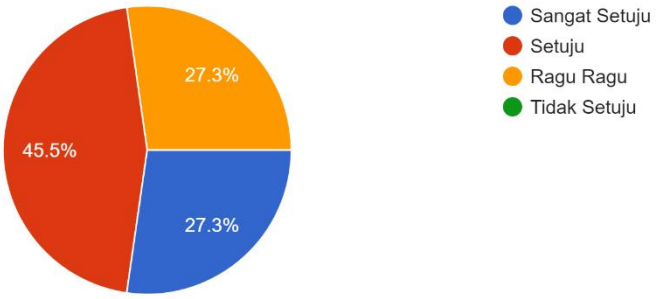
Lampiran 18: Hasil Formulir Melalui Google Form 7

Tidak ada hal dalam sistem indikator ini, yang menyebabkan saya tidak suka dalam menggunakannya.
11 responses



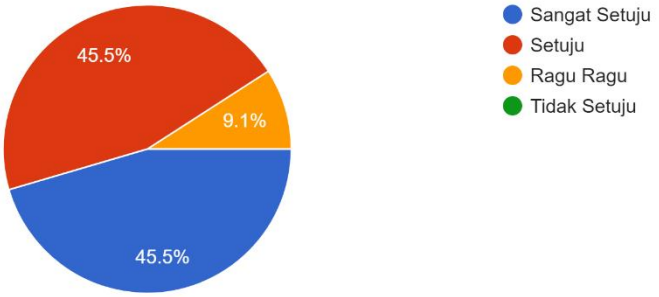
Lampiran 19: Hasil Formulir Melalui Google Form 8

Saya merasa, saya bisa menggunakan sistem ini terus dimasa depan.
11 responses



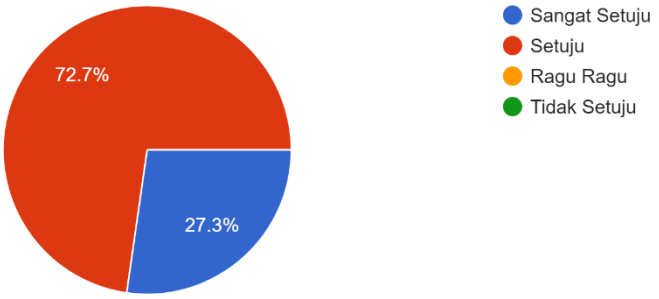
Lampiran 20: Hasil Formulir Melalui Google Form 9

Saya merasa, saya dapat menggunakan sistem indikator ini di berbagai kondisi.
11 responses



Lampiran 21: Hasil Formulir Melalui Google Form 10

Saya merasa, saya dapat menggunakan indikator ini di berbagai instrumen pasar modal (Saham,Forex, dan Crypto)
11 responses



Lampiran 22: Listing Program

```
// This source code is subject to the terms of the Mozilla Public License 2.0 at https://mozilla.org/MPL/2.0/

// © ALFON | EQUIFON VENTURES CAPITAL | ALFON | LINEAR REGRESSION ARTIFICIAL ALGORITHM

//@version=5

strategy('Equifon Artifitrade', overlay=true, pyramiding=0, default_qty_type=strategy.percent_of_equity, default_qty_value=10, calc_on_every_tick=false)

// === INPUTS ===

bsSignals = input(title='Tampilkan Prediksi Beli/Jual', defval=true)

regresialfon = input(title='Tampilkan Prediksi Linear Regresi ?', defval=true)

regresihitung = input(title='Regresi Linear Algorithm', defval=21)

Dbsinyal_detail = input(title='Dashboard Sinyal', defval=true)

dashDist = input(13, 'Jarak Dashboard')

dashColor = input.color(color.new(#696969, 80), 'Style Warna Dashboard', inline='Dash Line')

dashTextColor = input.color(color.new(#ffffff, 0), 'Warna Huruf', inline='Dash Line')

useRes = input(defval=true, title='Gunakan algoritma resolusi AI?')

intRes = input(defval=32, title='Multiplier Resolusi Regresi')

stratRes = timeframe.ismonthly ? str.tostring(timeframe.multiplier * intRes, '###M') : timeframe.isweekly ? str.tostring(timeframe.multiplier * intRes, '###W') : timeframe.isdaily ? str.tostring(timeframe.multiplier * intRes, '###D') : timeframe.isintraday ? str.tostring(timeframe.multiplier * intRes, '####') : '60'

basisType = input.string(defval='ALMA', title='MA Type: ', options=['SMA', 'EMA', 'DEMA', 'TEMA', 'WMA', 'VWMA', 'SMMA', 'HullMA', 'LSMA', 'ALMA', 'SSMA', 'TMA'])

basisLen = input.int(defval=2, title='Periode MA', minval=1)

offsetSigma = input.int(defval=6, title='Batasan algoritma MA dan ALMA', minval=0)

offsetALMA = input.float(defval=0.61, title='Batasan ALMA', minval=0, step=0.01)

scolor = input(false, title='Tampilkan warna sesuai trend ?')

delayOffset = input.int(defval=0, title='Aktifkan anti repainting pada daily ?', minval=0, step=1)

tradeType = input.string('BOTH', title='Mau prediksi apa ? (BUY,SELL,BOTH) ', options=['LONG', 'SHORT', 'BOTH', 'NONE'])
```

```
// Fungsi untuk menghitung regresi linear
linear_regression(src, length) =>
    sumX = 0.0
    sumY = 0.0
    sumXY = 0.0
    sumXX = 0.0
    for i = 0 to length - 1 by 1
        sumX += i
        sumY += src[i]
        sumXY += i * src[i]
        sumXX += i * i
        sumXX
    slope = (length * sumXY - sumX * sumY) / (length * sumXX - sumX * sumX)
    intercept = (sumY - slope * sumX) / length
    [slope, intercept]

// Inisialisasi variabel
var float slope = na
var float intercept = na
var float predicted = na

// Hitung regresi linier untuk harga penutupan jika regresialfon true
if regresialfon
    [slope, intercept] = linear_regression(close, regresihitung)
    predicted := intercept + slope * (regresihitung - 1)
    predicted

// Plot harga penutupan dan harga prediksi
```

```
plot(close, title='Close', color=color.new(color.blue, 0))

plot(regresialfon ? predicted : na, title='Predicted', color=color.new(color.red, 0), linewidth=2)


// ATR

atrlen = input(14, 'ATR Period')

mult = input.float(1, 'ATR Multi', step=0.1)

smoothing = input.string(title='ATR Smoothing', defval='ALMA', options=['RMA', 'SMA', 'ALMA',
'WMA'])

ma_function(source, atrlen, offSig, offALMA) =>

   if smoothing == 'RMA'

      ta.rma(source, atrlen)

   else

      if smoothing == 'SMA'

         ta.sma(source, atrlen)

      else

         if smoothing == 'ALMA'

            ta.alma(source, atrlen, offALMA, offSig)

         else

            ta.wma(source, atrlen)

atr_slen = ma_function(ta.tr(true), atrlen, offsetALMA, offsetSigma)


// === /INPUTWARNA ===


// Constants colours that include fully non-transparent option.

green100 = #008000FF

lime100 = #00FF00FF

red100 = #FF0000FF

blue100 = #0000FFFF
```

```
aqua100 = #00FFFFFF

darkred100 = #8B0000FF

gray100 = #808080FF

// === FUNGSI DASAR MOVING AVERAGE ===

s27ema = ta.ema(close, 27)

s50ema = ta.ema(close, 50)

s200ema = ta.ema(close, 200)

plot(s27ema, title="Ema 27", color = red100, linewidth = 1, transp=0)

plot(s50ema, title="Ema 50", color = aqua100, linewidth = 1, transp=0)

plot(s200ema, title="Ema 200", color = blue100, linewidth = 2, transp=0)

beliCond = ta.crossover(s27ema, s50ema) and (s50ema > s200ema)

JualCond = ta.crossunder(s27ema, s50ema) and (s50ema < s200ema)

plotshape(series=beliCond, title="Long", style=shape.triangleup, location=location.belowbar,
color=green100, text="LONG/Beli", size=size.small)

plotshape(series=JualCond, title="Short", style=shape.triangledown, location=location.abovebar,
color=red100, text="SHORT/Jual", size=size.small)

// MOVING AVERAGE ALGORITHM

variant(type, src, len, offSig, offALMA) =>

    v1 = ta.sma(src, len)  // Simple

    v2 = ta.ema(src, len)  // Exponential

    v3 = 2 * v2 - ta.ema(v2, len)  // Double Exponential

    v4 = 3 * (v2 - ta.ema(v2, len)) + ta.ema(ta.ema(v2, len), len)  // Triple Exponential

    v5 = ta.wma(src, len)  // Weighted

    v6 = ta.vwma(src, len)  // Volume Weighted

    v7 = 0.0

    v7 := na(v7[1]) ? ta.sma(src, len) : (v7[1] * (len - 1) + src) / len  // Smoothed

    v8 = ta.wma(2 * ta.wma(src, len / 2) - ta.wma(src, len), math.round(math.sqrt(len)))  // Hull

    v9 = ta.linreg(src, len, offSig)  // Least Squares
```

```
    v10 = ta.alma(src, len, offALMA, offSig)  // Arnaud Legoux
    v11 = ta.sma(v1, len)  // Triangular (extreme smooth)
    // SuperSmoother filter
    // © 2013  John F. Ehlers
    a1 = math.exp(-1.414 * 3.14159 / len)
    b1 = 2 * a1 * math.cos(1.414 * 3.14159 / len)
    c2 = b1
    c3 = -a1 * a1
    c1 = 1 - c2 - c3
    v12 = 0.0
    v12 := c1 * (src + nz(src[1])) / 2 + c2 * nz(v12[1]) + c3 * nz(v12[2])
    type == 'EMA' ? v2 : type == 'DEMA' ? v3 : type == 'TEMA' ? v4 : type == 'WMA' ? v5 : type ==
'VWMA' ? v6 : type == 'SMMA' ? v7 : type == 'HullMA' ? v8 : type == 'LSMA' ? v9 : type == 'ALMA' ?
v10 : type == 'TMA' ? v11 : type == 'SSMA' ? v12 : v1
// SECURITY CODE
reso(exp, use, res) =>
    use ? request.security(syminfo.tickerid, res, exp, gaps=barmerge.gaps_off,
lookahead=barmerge.lookahead_on) : exp
// === FUNCTIONS ===
// === BAR SERIES SETUP ===
closeSeries = variant(basisType, close[delayOffset], basisLen, offsetSigma, offsetALMA)
openSeries = variant(basisType, open[delayOffset], basisLen, offsetSigma, offsetALMA)
// === SERIES ===
// === PLOTTING ===
// ALTERNATIF PLOT
closeSeriesAlt = reso(closeSeries, useRes, stratRes)
openSeriesAlt = reso(openSeries, useRes, stratRes)
//
trendColour = closeSeriesAlt > openSeriesAlt ? color.green : color.red
```

```
bcolour = closeSeries > openSeriesAlt ? lime100 : red100

barcolor(scolor ? bcolour : na, title='Bar Colours')

closeP = plot(closeSeriesAlt, title='Close Series', color=trendColour, linewidth=2, style=plot.style_line, transp=20)

openP = plot(openSeriesAlt, title='Open Series', color=trendColour, linewidth=2, style=plot.style_line, transp=20)

fill(closeP, openP, color=trendColour, transp=80)

// === PLOTTING ===

// === KONDISI ===

xlong = ta.crossover(closeSeriesAlt, openSeriesAlt)

xshort = ta.crossunder(closeSeriesAlt, openSeriesAlt)

longCond = xlong // (xlong or xlong[1]) and close>closeSeriesAlt and close>=open

shortCond = xshort // (xshort or xshort[1]) and close<closeSeriesAlt and close<=open

// === PLOTTING ===

var sell = false

var buy = false

// === PLOTTING ===

buySignal = xlong

sellSignal = xshort

if buySignal

    sell := true

    buy := false

    sell

if sellSignal

    sell := false

    buy := true

    buy

// === PLOTTING ===
```

```
plotshape(bsSignals ? buySignal : na, title='Buy Signal', location=location.belowbar,
color=color.new(color.green, 0), style=shape.triangleup, size=size.tiny, textcolor=color.new(color.white, 0),
text='buy', size=size.tiny)

plotshape(bsSignals ? sellSignal : na, title='Sell Signal', location=location.abovebar,
color=color.new(color.red, 0), style=shape.triangledown, size=size.tiny, textcolor=color.new(color.white, 0),
text='sell', size=size.tiny)

// === STRATEGY ===

// stop loss

slPoints = input.int(defval=0, title='Initial Stop Loss Points (zero to disable)', minval=0)

tpPoints = input.int(defval=0, title='Initial Target Profit Points (zero for disable)', minval=0)

tp_inp3 = input(2.0, title='Take Profit %') / 100

// Include bar limiting algorithm

ebar = input.int(defval=10000, title='Number of Bars for Back Testing', minval=0)

dummy = input(false, title='- SET to ZERO for Daily or Longer Timeframes')

// === PLOTTING ===

tdays = (timenow - time) / 60000.0  // number of minutes since last bar

tdays := timeframe.ismonthly ? tdays / 1440.0 / 5.0 / 4.3 / timeframe.multiplier : timeframe.ismonthly ? tdays
/ 1440.0 / 5.0 / timeframe.multiplier : timeframe.isdaily ? tdays / 1440.0 / timeframe.multiplier : tdays /
timeframe.multiplier  // number of bars since last bar

//

//set up exit parameters

var coinname = syminfo.ticker

var tf = timeframe.period

long = ta.crossover(closeSeriesAlt, openSeriesAlt)

short = ta.crossunder(closeSeriesAlt, openSeriesAlt)

TP = tpPoints > 0 ? tpPoints : na

SL = slPoints > 0 ? slPoints : na

atrsinyal = sell == true ? atr_slen : atr_slen * -1.0

EP = ta.valuewhen(longCond or shortCond, close, 0)

limitentry = sell == true ? EP - EP * 1.4 / 100 : EP + EP * 0.75 / 100
```

```
SL1 = sell == true ? limitentry - atrsinyal : EP + EP * 2 / 100

// Ambil Profit

tp1 = strategy.position_avg_price + 1.0 * atrsinyal

tp2 = strategy.position_avg_price + 1.8 * atrsinyal

tp3 = strategy.position_avg_price + 2.8 * atrsinyal

tp4 = strategy.position_avg_price + 4.0 * atrsinyal

tp5 = strategy.position_avg_price + 5.2 * atrsinyal

tp6 = strategy.position_avg_price + 6 * atrsinyal

tp7 = strategy.position_avg_price + 7 * atrsinyal

tp8 = strategy.position_avg_price + 8 * atrsinyal

tp9 = strategy.position_avg_price + 10 * atrsinyal

tp10 = strategy.position_avg_price + 13 * atrsinyal

tp11 = strategy.position_avg_price + 16 * atrsinyal

tp12 = strategy.position_avg_price + 19 * atrsinyal

take_level_1 = strategy.position_avg_price * (1 + tp_inp3)

// if ((ebar==0 or tdays<=ebar) and tradeType!="NONE")

strategy.entry(str.tostring(xlong), strategy.long, when=longCond == true and tradeType != 'SHORT')

strategy.entry('short', strategy.short, when=shortCond == true and tradeType != 'LONG')

strategy.close('long', when=shortCond == true and tradeType == 'LONG')

strategy.close('short', when=longCond == true and tradeType == 'SHORT')

strategy.exit('XL', from_entry='long', profit=TP, loss=SL)

strategy.exit('XS', from_entry='short', profit=TP, loss=SL)

bars_right = input(30, 'x bars right')

position = input(close, 'Label position')  //|

lab_color = input(color.blue, 'Label color')

txt_color = input(color.white, 'Text color')

Green = color.new(color.green, 70)

Red = color.new(color.red, 70)
```

```
warnasinyal = sell == true ? Green : Red

signal = sell == true ? 'LONG / BUY 📈' : 'SHORT SELL 📉'

if Dbsinyal_detail

    text_ = ''

    text_ += '💎 Equifon AI V1.7 🐬' + '\n'

    text_ += ' 🤖 MADE WITH 💖 BY ALFON 🤖' + '\n'

    text_ += '——————————————————————————' + '\n'

    text_ += ' 🦄 VERSION : 1.7 🌸' + '\n'

    text_ += '😎 BUILD WITH PINESCRIPT 😱' + '\n'

    text_ += '——————————————————————————' + '\n'

    text_ += '\n 💌 Kode Pasar: ' + '$' + coinname

    text_ += '\n 🕛 Time Frame: ' + tf

    text_ += '\n 👻 Rekomendasi Leverage: 10x'

    text_ += '\n 🍑 Rekomendasi Margin: 1-5%'

    text_ += '\n 🔮 Arah Rekomendasi: ' + str.tostring(signal)

    text_ += '\n 🔮 Prediksi Regresi : ' + str.tostring(predicted)

    text_ += '\n 💸 ENTRY AREA: ' + str.tostring(EP) + '-' + str.tostring(limitentry)

    text_ += '\n 🛑 STOP LOSS: ' + str.tostring(SL1) + '\n'

    text_ += '\n 💵 TAKE PROFIT:   ' + '\n'

    text_ += '            ' + '\n'

    text_ += '  🏅 TP 1 (Jangka Pendek): ' + str.tostring(tp1) + '\n'

    text_ += '  🏅 TP 2 (Jangka Pendek): ' + str.tostring(tp2) + '\n'

    text_ += '  🏅 TP 3 (Jangka Pendek): ' + str.tostring(tp3) + '\n'

    text_ += '  🏅 TP 4 (Jangka Pendek): ' + str.tostring(tp4) + '\n'

    text_ += '            ' + '\n'

    text_ += '\n 🚀 TAKE PROFIT SWING AREA  :   ' + '\n'
```

```
    text_ += '            ' + '\n'
    text_ += ' 🏅 TP 5 (Jangka Menengah): ' + str.tostring(tp5) + '\n'
    text_ += ' 🏅 TP 6 (Jangka Menengah): ' + str.tostring(tp6) + '\n'
    text_ += ' 🏅 TP 7 (Jangka Menengah): ' + str.tostring(tp7) + '\n'
    text_ += ' 🏅 TP 8 (Jangka Menengah): ' + str.tostring(tp8) + '\n'
    text_ += '            ' + '\n'
    text_ += '\n 🎁 TAKE PROFIT HARDSWING / SPOT  :  ' + '\n'
    text_ += '            ' + '\n'
    text_ += ' 🏆 TP 5 (Jangka Panjang): ' + str.tostring(tp9) + '\n'
    text_ += ' 🏆 TP 6 (Jangka Panjang): ' + str.tostring(tp10) + '\n'
    text_ += ' 🏆 TP 7 (Jangka Panjang): ' + str.tostring(tp11) + '\n'
    text_ += ' 🏆 TP 8 (Jangka Panjang): ' + str.tostring(tp12) + '\n'
    text_ += '\n ----------' + '\n'
    text_ += '\n ⚡ #GrowthWealthBetter ⚡ ' + '\n'
    text_ += '\n 🔥 Equifon Exclusive 🔥 ' + '\n'
    t = timenow + math.round(ta.change(time) * bars_right)
    var label lab = na
    label.delete(lab)
    lab := label.new(t, position, text=text_, style=label.style_label_left, yloc=yloc.price, xloc=xloc.bar_time,
textalign=text.align_left, color=dashColor, textcolor=dashTextColor)
////// ALERT FOR API UPDATE ///////////
    if text_ != '' and sell == true or long == true
        alert('\n\n' + text_, freq=alert.freq_once_per_bar_close)
```