Optimizing cBot Parameters for Market Conditions

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settings (for example, changing an indicator period or stop-loss size) and
selecting those that yield the highest profit or Sharpe Ratio, etc. While
optimization can improve in-sample results, it must be done cautiously –
aggressive optimization can lead to overfitting. In essence, optimization is
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title="<h3 class="wpg-tooltip-title">Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and

selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >Optimization;colon&semi&semi&amp&amp ;semi;semi; class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Robustness</h3><div class="wpg-tooltip-content"><p>Robustness - The ability of the optimized strategy to perform well on new, out-of-sample data. A robust solution is not overly sensitive to slight market changes. While not directly cited, robustness is the desired outcome of good optimization practice (avoiding overfitting).</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/robustness/" >Robustness&amp&

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to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >optimization is “curve-fitti

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trading information for financial instruments, including bid/ask quotes,
last traded prices, and volume. Market data is the <em data-
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butter ;of trading systems. It is often delivered
via data feeds. As one source explains, “Market data is the
totality” of price and volume information, and “market data
feeds are the method by which that data is delivered to market
participants”. Forex robots consume market data (from
exchanges, brokers, or data vendors) as the basis for generating
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data/" >market data (often including
open/high/low/close prices
and volumes over time). Historical data allows
robots to backtest strategies over previous market conditions. A

typical source notes that platforms offer both real-time and historical data so that traders can test (“backtest”) their strategies on past price movements. In practice, a robot downloads historical tick or bar data to simulate trading decisions before deploying live.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/historical-data/">historical data that it fails in a live market . The goal is not to find the one perfect class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Parameter</h3><div class="wpg-tooltip-content"><p>Parameter - A public property in a cBot class marked with the <code data-start="11873" data-end="11886">[Parameter]</code> ;attribute becomes an input that users can set in the UI before

running the cBot. For example, defining ;<code data-
start="12068" data-
end="12134">[Parameter(DefaultValue
= 1000)] public int Volume { get; set;
}</code> ;creates a
“Volume” input. The docs
note: ;<em data-start="12176" data-
end="12216">“Marks a property as input
parameter.”. Supported types include
numeric types, ;<code data-
start="12296" data-end="12302&quot&semi
;>enum</code>, ;<code data-
start="12304" data-end="12316&quot&semi
;>DataSeries</code>, ;<code data-
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;>TimeFrame</code>,
etc. ;Parameters allow users to customize things like stop-loss,
take-profit, indicator periods, etc., without editing
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optimization can improve in-sample results, it must be done cautiously –
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;amp;gt; Do not try to optimize every single class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Parameter</h3><div class="wpg-tooltip-content"><p>Parameter - A public property in a cBot class marked with the <code data-start="11873" data-end="11886">[Parameter]</code> ;attribute becomes an input that users can set in the UI before running the cBot. For example, defining ;<code data-start="12068" data-end="12134">[Parameter(DefaultValue = 1000)] public int Volume { get; set; }</code> ;creates a “Volume” input. The docs note: ;<em data-start="12176" data-end="12216">“Marks a property as input parameter.”. Supported types include numeric types, ;<code data-start="12296" data-end="12302">enum</code>, ;<code data-start="12304" data-end="12316">DataSeries</code>, ;<code data-start="12318" data-end="12329">TimeFrame</code>, etc. ;Parameters allow users to customize things like stop-loss, take-profit, indicator periods, etc., without editing code.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/parameter/" >parameter at once&amp&amp&semi&semi&

semi;semi;amp;comma; as this dramatically increases the risk of curve-fitting. Focus on the most critical inputs, like an class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Indicator</h3><di

v class="wpg-tooltip-content"><p>Indicator - A chart analysis tool (built-in or custom). Indicators plot values on the chart (lines, histograms) to show trends or patterns (e.g. Moving Averages, RSI, etc.). They cannot trade on their own. MetaTrader has many built-in <strong data-start="11586" data-end="11610">Technical Indicators ;(MA, MACD, etc.) and allows ;<strong data-start="11639" data-end="11660">Custom Indicators ;coded by users. Indicators (both types) are listed in the Navigator and can be attached to charts.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/indicator/" >indicator period or a stop-loss multiple.<&amp&semi&semi&s

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content"><p>Parameter - A public property in
a cBot class marked with the <code data-start="11873"
data-end="11886">[Parameter]<
/code> ;attribute becomes an input that users can set in the UI before
running the cBot. For example, defining ;<code data-
start="12068" data-
end="12134">[Parameter(DefaultValue
= 1000)] public int Volume { get; set;
}</code> ;creates a
“Volume” input. The docs
note: ;<em data-start="12176" data-
end="12216">“Marks a property as input
parameter.”. Supported types include
numeric types, ;<code data-
start="12296" data-end="12302&quot&semi
;>enum</code>, ;<code data-
start="12304" data-end="12316&quot&semi
;>DataSeries</code>, ;<code data-
start="12318" data-end="12329&quot&semi
;>TimeFrame</code>,
etc. ;Parameters allow users to customize things like stop-loss,
take-profit, indicator periods, etc., without editing
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account currency) of all trades. In the backtest results, “Net
Profit” is listed under Trade Statistics (it is the sum of all winning and losing
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;<div class="wpg-tooltip-content"><p>Gross Loss - The sum of all negative (losing) trades’ losses (usually expressed as a positive number for calculation). For example, three losing trades of $-30, $-20, $-50 give Gross Loss = $100. A high gross loss relative to gross profit is a red flag for strategy

viability.</p>
<p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/gross-loss/" >gross loss of losing trades). A profit factor >1 means net profitability. For example, PF=2 means $2 gained per $1 lost. Algorithmic traders use profit factor to evaluate strategy profitability; a higher profit factor indicates more reward per unit of loss.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/profit-factor/" >Profit Factor:&amp&semi&semi&amp&se

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semi;semi;p>Profit Factor - A performance metric

defined as (total class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Gross Profit</h3><div class="wpg-tooltip-content"><p>Gross Profit - The sum of all positive (winning) trades’ profits. For instance, if three winning trades made $100, $150, and $50, Gross Profit = $300. It does <em data-start="10258" data-end="10263">not ;account for losses. Used alongside Gross Loss to compute profit factor and net profit.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/gross-profit/" >gross profit of winning trades) ÷ (total class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Gross Loss</h3><div class="wpg-tooltip-content"><p>Gross Loss - The sum of all negative (losing) trades’ losses (usually expressed as a positive number for calculation). For example, three losing trades of $-30, $-20, $-50 give Gross Loss = $100. A high gross loss relative to gross profit is a red flag for strategy viability.</p> <p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/gross-loss/" >gross loss of losing trades). A profit factor >1 means net profitability. For example, PF=2 means $2 gained per $1 lost. Algorithmic traders use profit factor to evaluate strategy profitability; a higher profit factor indicates more reward per unit of loss.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/profit-factor/" >profit factor often leads to more efficient and reliable strategies.<&amp&amp&amp&amp

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Ratio</
span></h3><div class="wpg-tooltip-content"><p>Sharpe Ratio - A risk-adjusted performance metric that measures average return earned in excess of a risk-free rate per unit of volatility. A higher Sharpe indicates more return for each unit of risk (standard deviation). In forex robot evaluation, Sharpe helps compare strategies by considering both return and
variability.</p><p class="wpg-read-more">Read
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;>Volatility</h3><di
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content"><p>Volatility - A measure of how much and
how quickly price moves over time. High volatility means large price swings; low
volatility means stable prices. Volatility affects position sizing and risk: robots
typically use volatility (e.g. Average True Range) to adjust trade size
or widen stops, since more volatile markets require larger
buffers.</p>
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measures return per unit of
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risk, ignoring upside swings. A higher
Sortino implies better risk-adjusted performance focusing on downside
protection. Algorithmic traders use Sortino to penalize strategies with
large losses more than Sharpe does.&lt&semi
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content"><p>Optimization - The process of adjusting a
trading strategy’s parameters to achieve the best performance on historical
data. In backtesting, traders optimize by testing different combinations of
settings (for example, changing an indicator period or stop-loss size) and
selecting those that yield the highest profit or Sharpe Ratio, etc. While
optimization can improve in-sample results, it must be done cautiously –
aggressive optimization can lead to overfitting. In essence, optimization is
about finding the “optimal” parameters for past data, with
the goal of improving future performance, but one must verify on out-of-sample data
to ensure the strategy hasn’t just been tuned to historical
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<h2>Analyzing the class="wpg-linkify wpg-

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title="<h3 class="wpg-tooltip-title">Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >Optimization Results;amp;amp;lt;/h2&amp&semi

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semi;p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >optimization is complete;comma&semi&
semi; cTrader will display a list of all the class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Parameter</h3><div class="wpg-tooltip-content"><p>Parameter - A public property in a cBot class marked with the <code data-start="11873" data-end="11886">[Parameter]</code> ;attribute becomes an input that users can set in the UI before running the cBot. For example, defining ;<code data-start="12068" data-end="12134">[Parameter(DefaultValue = 1000)] public int Volume { get; set;

}</code> ;creates a “Volume” input. The docs note: ;<em data-start="12176" data-end="12216">“Marks a property as input parameter.”. Supported types include numeric types, ;<code data-start="12296" data-end="12302">enum</code>, ;<code data-start="12304" data-end="12316">DataSeries</code>, ;<code data-start="12318" data-end="12329">TimeFrame</code>, etc. ;Parameters allow users to customize things like stop-loss, take-profit, indicator periods, etc., without editing code.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/parameter/" >parameter combinations and their results. Do not just sort by class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Net Profit</h3><div class="wpg-tooltip-content"><p>Net Profit - The total net profit (pips or account currency) of all trades. In the backtest results, “Net Profit” is listed under Trade Statistics (it is the sum of all winning and losing

trades). It’s one of the built-in optimization criteria as
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="wpg-tooltip-term-title">Walk-Forward class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more"><a href="https://forexalgos.com/forex-robots-

glossary/optimization/">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >Optimization</h3><div class ="wpg-tooltip-content"><p>Walk-Forward class="wpg-linkify wpg-tooltip"

title="<h3 class="wpg-tooltip-title">Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >Optimization - A robust validation method for trading strategies. It involves repeatedly optimizing strategy parameters on an “in-sample” historical window and then testing them on the immediately following “out-of-sample” period. For example, a forex robot might fit a model on data from January&ndash&amp&amp

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mi;lt;p>Walk-Forward Analysis - An advanced class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Backtesting</h3><div class="wpg-tooltip-content"><p>Backtesting - The process of testing a trading strategy or predictive model on historical market data to evaluate its performance. Backtesting simulates how a forex robot would have traded in the past, measuring profitability and risk without real money. A proper backtest uses out-of-sample data and realistic assumptions; for example, it might withhold recent price data until after tuning parameters, to check if the strategy generalizes. It is a critical step to ensure the trading algorithm is viable before live deployment.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/backtesting/" >backtesting method. The strategy is optimized on one historical segment (in-sample) and then tested on the next segment (out-of-sample), repeatedly. This simulates real-world trading and helps avoid class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Overfitting</h3><div class="wpg-tooltip-content"><p>Overfitting - A common problem where a model learns the training data (including noise) too well and fails to generalize to new data. An overfitted trading model might show excellent results on historical backtests but perform poorly on live markets. This happens when the model is too complex or trained too long on limited data, causing it to memorize idiosyncrasies rather than underlying trends. Mitigation techniques include regularization, pruning, and validation. In forex AI, preventing overfitting is critical: models must capture robust patterns (like true price dynamics) and not transient artifacts, so that predictions remain valid in future market conditions.</p><p class="wpg-read-more"><a href="https://forexalgos.com/forex-robots-

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noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >optimization type. This is the professional&#8217&amp&amp&amp&sem

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content"><p>Market Data - The collection of all relevant

trading information for financial instruments, including bid/ask quotes, last traded prices, and volume. Market data is the <em data-start="6930" data-end="6948">bread and butter ;of trading systems. It is often delivered via data feeds. As one source explains, “Market data is the totality” of price and volume information, and “market data feeds are the method by which that data is delivered to market participants”. Forex robots consume market data (from exchanges, brokers, or data vendors) as the basis for generating signals and making trading decisions.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/market-data/" >market data (often including open/high/low/close prices and volumes over time). Historical data allows robots to backtest strategies over previous market conditions. A typical source notes that platforms offer both real-time and historical data so that traders can test (“backtest”) their strategies on past price movements. In practice, a robot downloads historical tick or bar data to simulate trading decisions before deploying live.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/historical-data/" >historical data into segments&semi&semi&am

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p;amp;semi;semi;semi;class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >Optimization allows you to create specialized class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Parameter</h3><div class="wpg-tooltip-content"><p>Parameter - A public property in a cBot class marked with the <code data-start="11873" data-end="11886">[Parameter]</code> ;attribute becomes an input that users can set in the UI before running the cBot. For example, defining ;<code data-start="12068" data-end="12134">[Parameter(DefaultValue = 1000)] public int Volume { get; set; }</code> ;creates a “Volume” input. The docs note: ;<em data-start="12176" data-end="12216">“Marks a property as input parameter.”. Supported types include numeric types, ;<code data-start="12296" data-end="12302&quot&semi

;>enum</code>, ;<code data-
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;>DataSeries</code>, ;<code data-
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etc. ;Parameters allow users to customize things like stop-loss,
take-profit, indicator periods, etc., without editing
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;semi;semi;As an active manager, you can then use your own analysis to identify the current market state and load the appropriate, pre-optimized class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Parameter</h3><div class="wpg-tooltip-content"><p>Parameter - A public property in a cBot class marked with the <code data-start="11873" data-end="11886">[Parameter]</code> ;attribute becomes an input that users can set in the UI before running the cBot. For example, defining ;<code data-start="12068" data-end="12134">[Parameter(DefaultValue = 1000)] public int Volume { get; set; }</code> ;creates a “Volume” input. The docs note: ;<em data-start="12176" data-end="12216">“Marks a property as input parameter.”. Supported types include numeric types, ;<code data-start="12296" data-end="12302">enum</code>, ;<code data-start="12304" data-end="12316">DataSeries</code>, ;<code data-start="12318" data-end="12329">TimeFrame</code>, etc. ;Parameters allow users to customize things like stop-loss, take-profit, indicator periods, etc., without editing code.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/parameter/" >parameter file into your cBot . This allows your robot to adapt its behavior to the live market&comma&amp&semi&se

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is the desired outcome of good optimization practice (avoiding
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data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical
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="wpg-tooltip-content"><p>Walk-Forward Analysis - An advanced class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Backtesting</h3><div class="wpg-tooltip-content"><p>Backtesting - The process of testing a trading strategy or predictive model on historical market data to evaluate its performance. Backtesting simulates how a forex robot would have traded in the past, measuring profitability and risk without real money. A proper backtest uses out-of-sample data and realistic assumptions; for example, it might withhold recent price data until after tuning parameters, to check if the strategy generalizes. It is a critical step to ensure the trading algorithm is viable before live deployment.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/backtesting/" >backtesting method. The strategy is optimized on one historical segment (in-sample) and then tested on the next segment (out-of-sample), repeatedly. This simulates real-world trading and helps avoid class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Overfitting</h3><div class="wpg-tooltip-content"><p>Overfitting - A common problem where a

model learns the training data (including noise) too well and fails to generalize to new data. An overfitted trading model might show excellent results on historical backtests but perform poorly on live markets. This happens when the model is too complex or trained too long on limited data, causing it to memorize idiosyncrasies rather than underlying trends. Mitigation techniques include regularization, pruning, and validation. In forex AI, preventing overfitting is critical: models must capture robust patterns (like true price dynamics) and not transient artifacts, so that predictions remain valid in future market conditions.</p&gt&
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mi;amp;sol;div>" href="https://forexalgos.com/forex-robots-glossary/walk-forward-analysis/" >Walk-forward analysis is considered the “gold standard” in validating trading systems because it evaluates performance over multiple sequential periods, highlighting how well the model adapts to changing market dynamics. It prevents over-optimistic results that can arise from a single-period backtest.</p>&lt&
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about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >optimization/">Read More</p></div>&quot&amp&amp&se

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;>Optimization</h3><div class="wpg-tooltip-content"><p>Optimization - The process of adjusting a trading strategy’s parameters to achieve the best performance on historical data. In backtesting, traders optimize by testing different combinations of settings (for example, changing an indicator period or stop-loss size) and selecting those that yield the highest profit or Sharpe Ratio, etc. While optimization can improve in-sample results, it must be done cautiously – aggressive optimization can lead to overfitting. In essence, optimization is about finding the “optimal” parameters for past data, with the goal of improving future performance, but one must verify on out-of-sample data to ensure the strategy hasn’t just been tuned to historical noise.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/optimization/" >optimization, you can move beyond simple class="wpg-linkify wpg-tooltip" title="<h3 class="wpg-tooltip-title">Backtesting</h3><div class="wpg-tooltip-content"><p>Backtesting - The process of testing a trading strategy or predictive model on historical market data to evaluate its performance. Backtesting simulates how a forex robot would have traded in the past, measuring profitability and risk without real money. A proper backtest uses out-of-sample data and realistic assumptions; for example, it might withhold recent price data until after tuning parameters, to check if the strategy generalizes. It is a critical step to ensure the trading algorithm is viable before live deployment.</p><p class="wpg-read-more">Read More</p></div>" href="https://forexalgos.com/forex-robots-glossary/backtesting/" >backtesting. This intelligent approach to tuning ensures you are preparing your cBot not just for the past, but for the dynamic and ever-changing &lt&amp&semi&s

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