

# 1.0 FuturesTrade Installation Guide

The setup for FuturesTrade Experts is simple and quick.

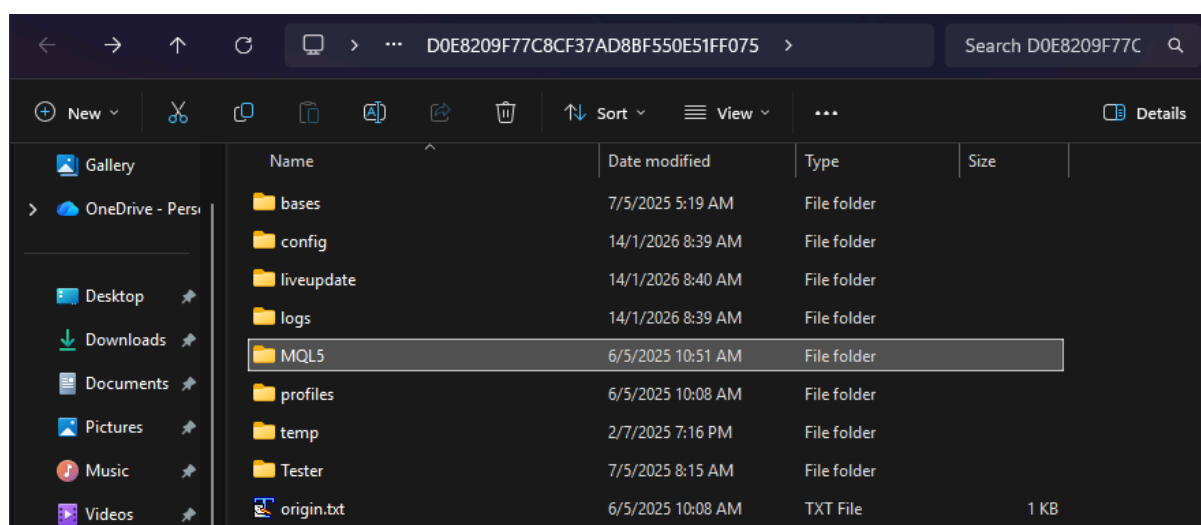
First, download the latest version of the Experts from <https://futurestrade.ai/mt5>

The ZIP file contains two folders:

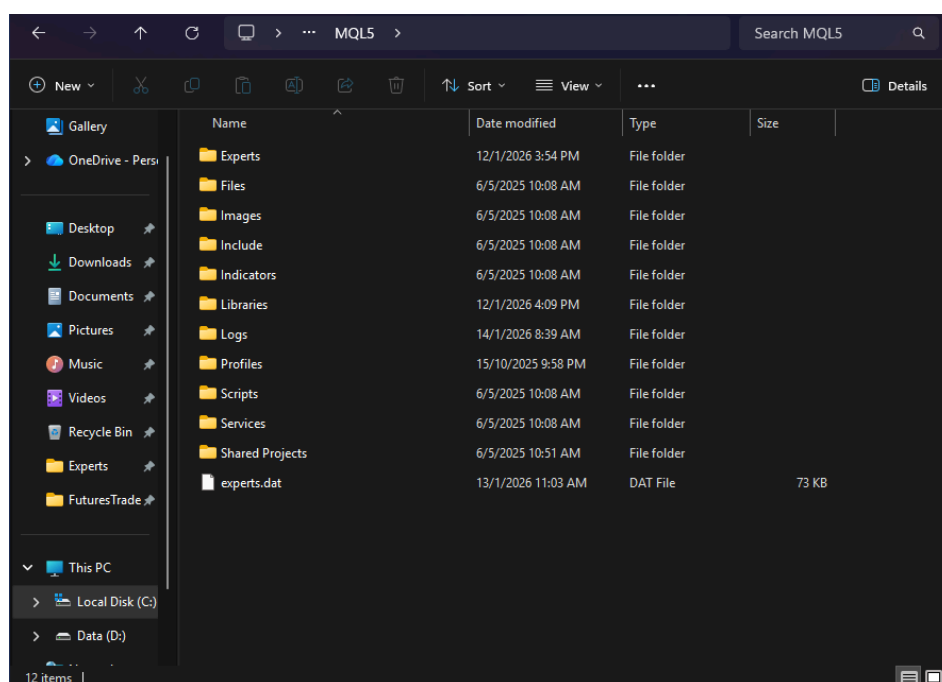
1. Experts
2. Libraries

To install, copy both folders into the MQL5 folder inside your MetaTrader 5 Data Folder.

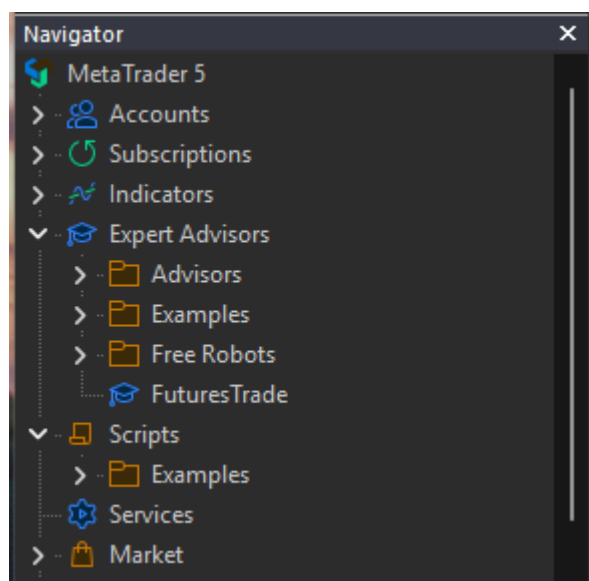
You can refer to the images below for step-by-step guidance on how to locate the MQL5 folder.



This is where you place the FuturesTrade Experts:



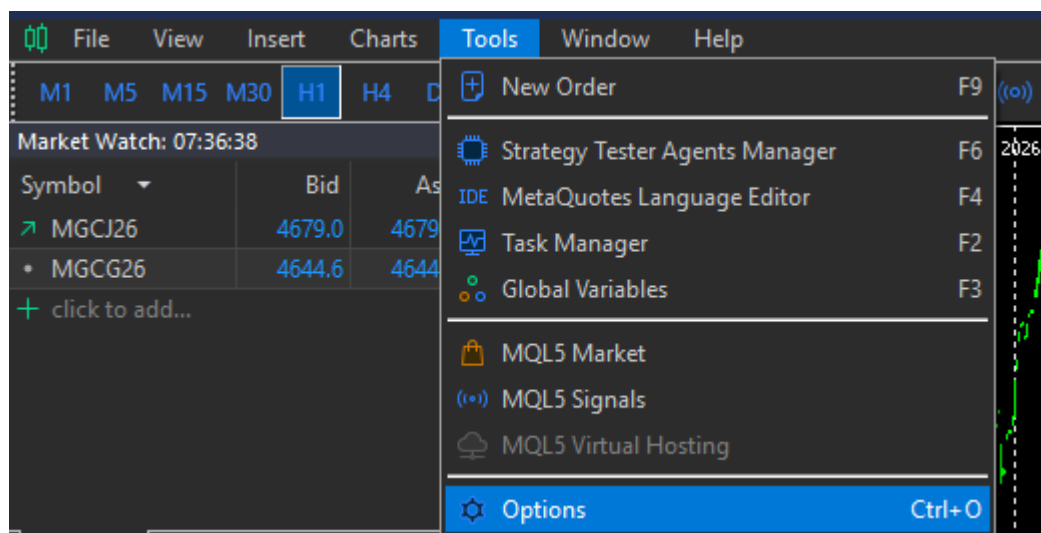
You can confirm that the Expert has been installed successfully by opening MetaTrader 5 and checking the Navigator panel under Expert Advisors → FuturesTrade.



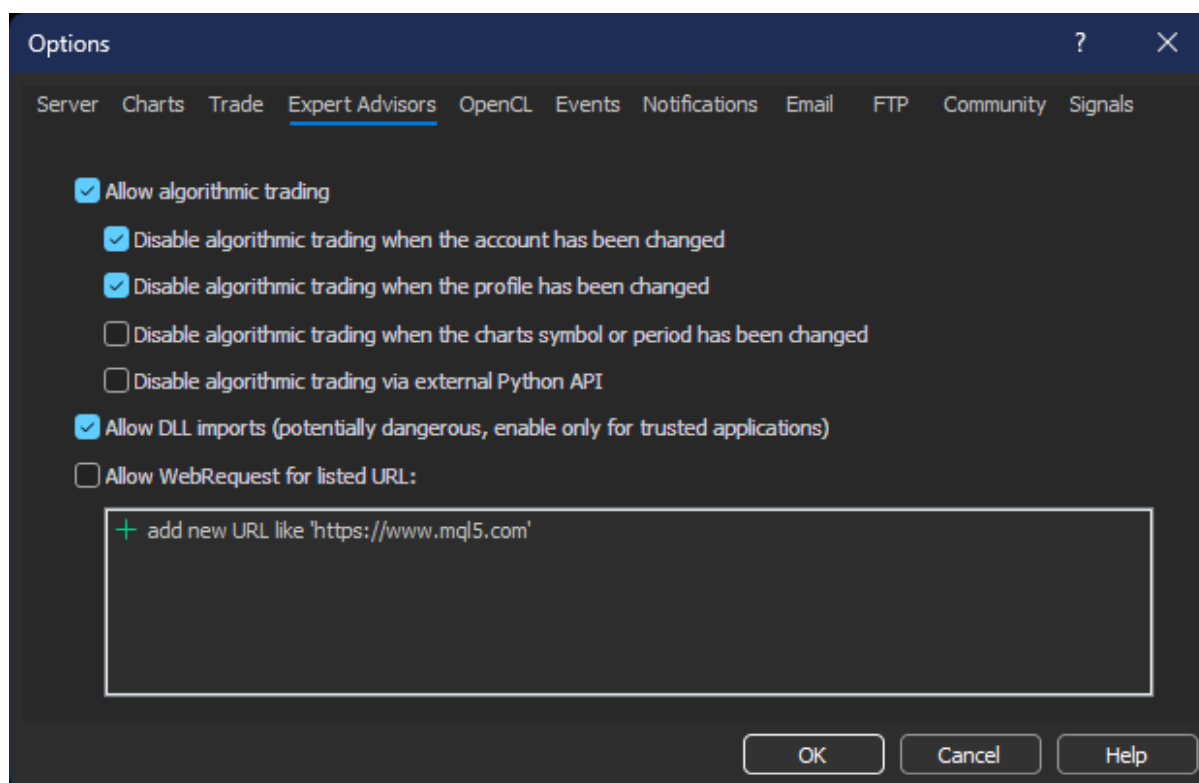
## 2.0 Enabling DLL (optional)

Before running FuturesTrade, ensure that the DLL imports feature is enabled in your MT5 platform. FuturesTrade relies on a DLL library to communicate with the decision server. Since this feature is disabled by default, you may need to enable it manually.

Navigate to Tools → Options to configure this setting.



Navigate to the Expert Advisors tab and check “Allow DLL imports.”



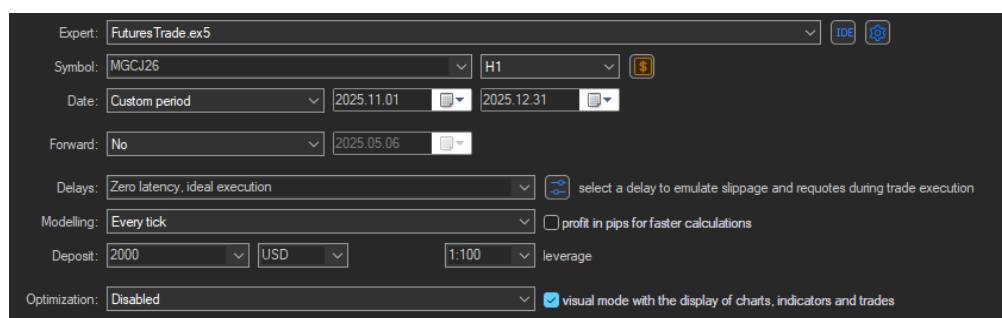
### 3.0 Basic Training Setup

The setup consists of **two stages** designed to improve decision quality and accuracy during live trading, using the built-in MT5 Strategy Tester.

1. Learning Phase
2. Trade Learning Phase

#### Stage 1: Learning Phase

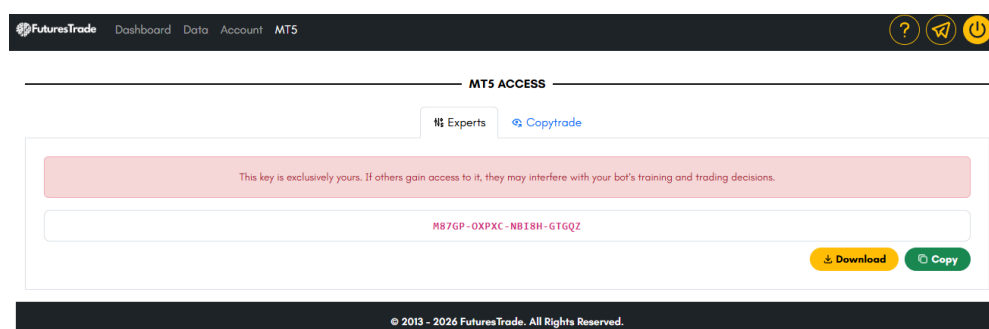
1. Open MT5 and Strategy Tester, select `FuturesTrade.ex5` and make sure you load the chart data to determine the Period of testing



2. Navigate to the Inputs tab

Variable	Value
<input checked="" type="checkbox"/> access_key	m87gp-oxpxc-nbi8h-gtggz
<input checked="" type="checkbox"/> learning_mode	false
<input checked="" type="checkbox"/> contract_size_multiplier	10
<input checked="" type="checkbox"/> candle_count	25
<input checked="" type="checkbox"/> pip_min_scan	10
<input checked="" type="checkbox"/> pip_max_scan	595
<input checked="" type="checkbox"/> min_pattern_occurrence	3
<input checked="" type="checkbox"/> min_confidence	65
<input checked="" type="checkbox"/> min_winrate	75
<input checked="" type="checkbox"/> stop_loss_ratio	2
<input checked="" type="checkbox"/> volume_digit	1
<input checked="" type="checkbox"/> allocated_margin_rate	0.75
<input checked="" type="checkbox"/> locked_margin_rate	0.25
<input checked="" type="checkbox"/> max_margin	0.0
<input checked="" type="checkbox"/> price_in_cent	true
<input checked="" type="checkbox"/> allow_swing	false
<input checked="" type="checkbox"/> filling_type	1
<input checked="" type="checkbox"/> broadcast_signal	false

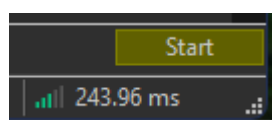
3. Get the access\_key from [FT's MT5 management](#).



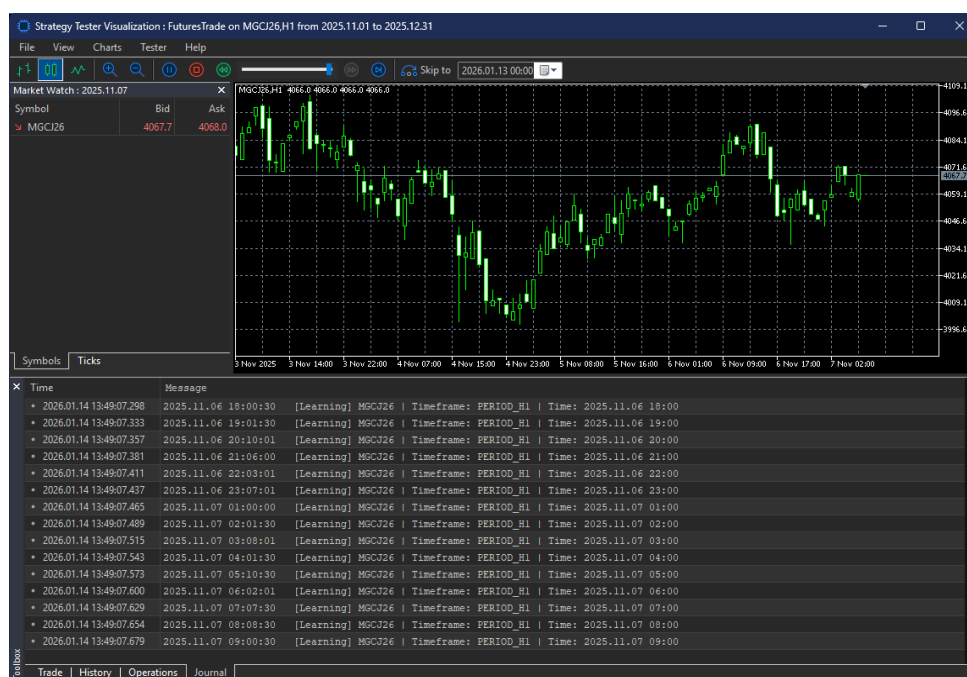
#### 4. Set the learning\_mode to true

Variable	Value
<input checked="" type="checkbox"/> access_key	m87gp-oxpxc-nbi8h-gtqz
<input checked="" type="checkbox"/> learning_mode	true

#### 5. You may set any amount of deposit and hit Start. The system will now start learning. Trading won't happen in this mode.



#### 6. You may check on the Journal tab of the Simulator to ensure the learning process is working as expected.



Time	Message
2026.01.14 13:49:30.308	2025.12.18 06:01:30 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 06:00
2026.01.14 13:49:30.333	2025.12.18 07:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 07:00
2026.01.14 13:49:30.355	2025.12.18 08:01:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 08:00
2026.01.14 13:49:30.379	2025.12.18 09:03:30 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 09:00
2026.01.14 13:49:30.409	2025.12.18 10:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 10:00
2026.01.14 13:49:30.439	2025.12.18 11:04:30 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 11:00
2026.01.14 13:49:30.466	2025.12.18 12:01:30 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 12:00
2026.01.14 13:49:30.488	2025.12.18 13:04:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 13:00
2026.01.14 13:49:30.523	2025.12.18 14:03:01 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 14:00
2026.01.14 13:49:30.550	2025.12.18 15:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 15:00
2026.01.14 13:49:30.575	2025.12.18 16:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 16:00
2026.01.14 13:49:30.603	2025.12.18 17:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 17:00
2026.01.14 13:49:30.633	2025.12.18 18:01:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 18:00
2026.01.14 13:49:30.660	2025.12.18 19:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 19:00
2026.01.14 13:49:30.686	2025.12.18 20:00:00 [Learning] MGCJ26   Timeframe: PERIOD_H1   Time: 2025.12.18 20:00

- This process can be repeated several times using different Periods to ensure the system captures all the existing patterns.
- To confirm the patterns is already learned by the system you may check on the Web Data menu and you might see something like below:

FuturesTrade Dashboard Data Account MTS				
DATA MANAGEMENT				
You may modify the learned data here. Please note that this action is irreversible, so proceed with caution.				
SYMBOL		PATTERNS		WIN RATE
NAME	PERIOD	FOUND	TESTED	
MGCG26	PERIOD_HI	173	58	69%
MGCJ26	PERIOD_HI	152	41	65%
© 2013 - 2026 FuturesTrade. All Rights Reserved.				

## Stage 2: Trading Learning Phase

- Open the Inputs tab and set `learning_mode` to false

Variable	Value
<input checked="" type="checkbox"/> access_key	m87gp-oxpxc-nbi8h-gtgqz
<input checked="" type="checkbox"/> learning_mode	false

- Next, configure the settings to match the current contract. In this example, we are using MGCJ26 (Micro Gold, February 2026). Contract specifications can be found on the official [CME website](#).

CME Group MARKETS DATA SOLUTIONS   INSIGHTS EDUCATION		LOG IN
Micro Gold		View a Metals Product
SYMBOL CODE	LAST	CHANGE
MGCG6	4636.6	+37.5 (+0.82%)
		VOLUME 123,800
Trading Simulator		WATCHLISTS
OVERVIEW		QUOTES SETTLEMENTS VOLUME & OI SPECS MARGINS CALENDAR
MICRO GOLD FUTURES - CONTRACT SPECS		
CONTRACT UNIT	10 troy ounces	
PRICE QUOTATION	U.S. dollars and cents per troy ounce	
TRADING HOURS	Sunday - Friday 6:00 p.m. - 5:00 p.m. (5:00 p.m. - 4:00 p.m. CT) with a 60-minute break each day beginning at 5:00 p.m. (4:00 p.m. CT)	
MINIMUM PRICE FLUCTUATION	0.10 per troy ounce = \$100	
PRODUCT CODE	CME Globex: MGC CME ClearPort: MGC Clearing: MGC TAB: MGT	
LISTED CONTRACTS	Monthly contracts listed for any Feb, Apr, Jun, Aug, Oct, and Dec in the nearest 24 months	
SETTLEMENT METHOD	Deliverable	
TERMINATION OF TRADING	Trading terminates on the third last business day of the contract month.	
SETTLEMENT PROCEDURES	Micro Gold Futures Settlement Procedures	
POSITION LIMITS	COMEX Position Limits	
EXCHANGE BILLBOARD	COMEX 100	
PRICE LIMIT OR CIRCUIT	Price Limits	
VENDOR CODES	Quote Vendor Symbols Listing	
DELIVERY PERIOD	Delivery may take place on any business day beginning on the first business day of the delivery month or any subsequent business day of the delivery month, but not later than the last business day of the current delivery month.	
GRADE AND QUALITY	Gold delivered under this contract shall assay to a minimum of 995 fineness.	

- According to the specification, we will configure FuturesTrade to support the MGC symbol by setting the `contract_size_multiplier` to 10 (10 troy ounces per contract as stated on the official website) and defining `price_in_cent` to either `true` or `false` based on how the contract price is quoted (either in cents or in dollars).

Name	Description
<code>contract_size_multiplier</code>	<p>Defines the contract size factor used when converting price movement into actual profit, loss, and margin calculations.</p> <p>A value of 1 means no adjustment (standard contract size).</p> <p>For contracts like MGC, this should be set to 10 to represent 10 troy ounces per contract.</p> <p>This ensures PnL, margin, and risk calculations scale correctly with the real contract size.</p>
<code>price_in_cent</code>	<p>Indicates how the instrument price is quoted by the broker.</p> <p><b>false</b> → price is quoted in dollars (e.g. 1950.30)</p> <p><b>true</b> → price is quoted in cents (e.g. 195030)</p> <p>When set correctly, this prevents 10× / 100× miscalculations in PnL, stop loss distance, and margin usage.</p>
<code>filling_type</code>	<p>Selects the order filling policy used when sending a trade request.</p> <p>Mapping based on the code:</p> <p><b>1</b> → ORDER_FILLING_RETURN Allows partial fills; any unfilled volume remains pending.</p> <p><b>2</b> → ORDER_FILLING_IOC (Immediate or Cancel) Fills available volume immediately; unfilled portion is cancelled.</p> <p><b>3</b> → ORDER_FILLING_FOK (Fill or Kill) Order is executed only if the full volume can be filled immediately; otherwise rejected.</p> <p>Any other value → ORDER_FILLING_BOC Order is canceled if it cannot be placed immediately (broker-specific behavior).</p>

This setting has a significant impact on trading lot calculations and overall trade execution, so it must be configured correctly.

4. `pip_min_scan` and `pip_max_scan` define the acceptable price movement range for a valid pattern. The minimum filters out small, insignificant moves, while the maximum excludes abnormal spikes or news-driven volatility. If users are unsure where to start, both values can be referenced from the [Data Management](#) section on the web, which provides typical movement ranges for each instrument.

Name	Description
<code>candle_count</code>	<p>Defines how many past candles are used to scan for patterns.</p> <p>Represents a time window, depending on the chart timeframe</p> <p>Example: H1 × 25 ≈ 1 day, M15 × 25 ≈ 6 hours</p> <ul style="list-style-type: none"> <li>• Higher value → broader market view</li> <li>• Lower value → shorter-term focus</li> </ul>
<code>pip_min_scan</code>	<p>Minimum price movement (in pips) required for a move to be considered a valid pattern.</p> <p>Filters out tiny, meaningless fluctuations</p> <p>Prevents noise from being treated as signal</p>
<code>pip_max_scan</code>	<p>Maximum price movement (in pips) allowed for a pattern.</p> <p>Excludes abnormal spikes or news-driven moves</p> <p>Keeps pattern size within expected market behavior</p>
<code>min_pattern_occurence</code>	<p>Sets how many times a pattern must appear before the system is allowed to trade it.</p> <p>The system waits and observes the pattern until this count is reached.</p> <p>Example: <code>min_pattern_occurence = 3</code></p> <ul style="list-style-type: none"> <li>• Pattern appears 1st time → no trade</li> <li>• Pattern appears 2nd time → no trade</li> <li>• Pattern appears 3rd time → trade is allowed</li> </ul>
<code>min_confidence</code>	<p>Minimum confidence score (percentage) required to allow a trade.</p> <p>Represents pattern reliability based on historical outcomes</p> <p>Values below this are ignored completely</p>
<code>min_winrate</code>	<p>Minimum historical win rate (percentage) required for execution.</p> <p>100 means only perfect historical patterns are allowed</p> <p>Extremely strict → very few trades, maximum filtering</p>



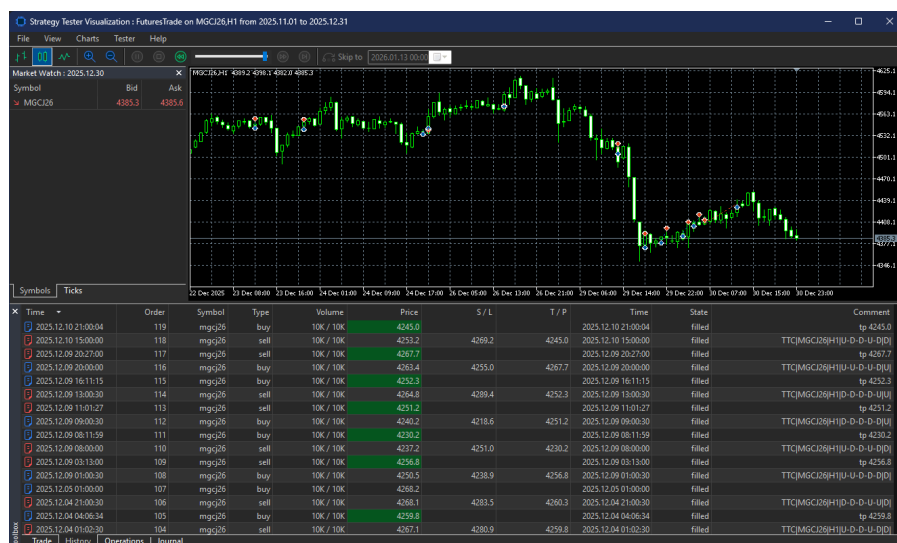
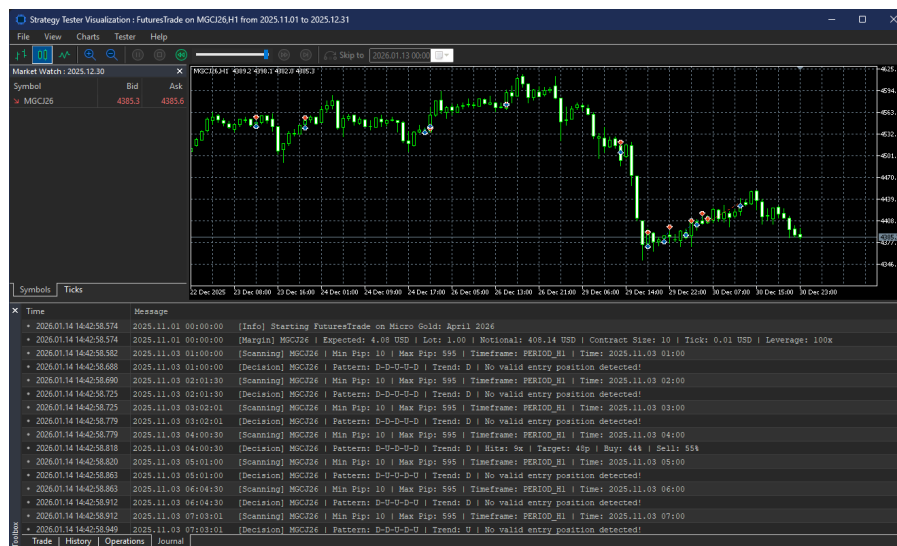
5. The rest of the settings are money-management related, so feel free to try them out and fine-tune as needed.

Name	Description
<code>stop_loss_ratio</code>	<p>Defines how far the stop loss is placed relative to the entry logic.</p> <p>A higher value means a wider stop loss, giving the trade more room but increasing risk per trade.</p>
<code>volume_digit</code>	<p>Controls the rounding precision of the calculated trade volume (lot size).</p> <p>A value of 2 rounds the volume to 2 decimal places (e.g. 0.013 → 0.01, 1.256 → 1.26).</p>
<code>allocated_margin_rate</code>	<p>The portion of available margin that can be allocated to open trades.</p> <p>A value of 0.25 means 25% of available margin is allowed to be used.</p>
<code>locked_margin_rate</code>	<p>The portion of margin reserved and not used for new trades.</p> <p>A value of 0.75 keeps 75% of margin locked as a safety buffer.</p>
<code>max_margin</code>	<p>Sets the maximum margin allowed for a single position.</p> <ul style="list-style-type: none"> <li>• 0 → no limit</li> <li>• Any positive value → limits how much margin one trade can use</li> </ul> <p>Note: The actual margin required per position is affected by account leverage, so different leverage settings will change how this limit behaves.</p>
<code>allow_swing</code>	<p>Controls whether swing trades (longer holding duration) are allowed.</p> <ul style="list-style-type: none"> <li>• false → only short-term / intraday-style trades</li> <li>• true → swing trades are permitted</li> </ul>

6. The final Strategy Tester configuration is as follows:

Variable	Value
<input checked="" type="checkbox"/> access_key	m87gp-oxpxc-nbi8h-gtqgz
<input checked="" type="checkbox"/> learning_mode	false
<input checked="" type="checkbox"/> contract_size_multiplier	10
<input checked="" type="checkbox"/> candle_count	25
<input checked="" type="checkbox"/> pip_min_scan	10
<input checked="" type="checkbox"/> pip_max_scan	595
<input checked="" type="checkbox"/> min_pattern_occurence	3
<input checked="" type="checkbox"/> min_confidence	65
<input checked="" type="checkbox"/> min_winrate	75
<input checked="" type="checkbox"/> stop_loss_ratio	2
<input checked="" type="checkbox"/> volume_digit	1
<input checked="" type="checkbox"/> allocated_margin_rate	0.75
<input checked="" type="checkbox"/> locked_margin_rate	0.25
<input checked="" type="checkbox"/> max_margin	0.0
<input checked="" type="checkbox"/> price_in_cent	true
<input checked="" type="checkbox"/> allow_swing	false
<input checked="" type="checkbox"/> filling_type	1
<input checked="" type="checkbox"/> broadcast_signal	false

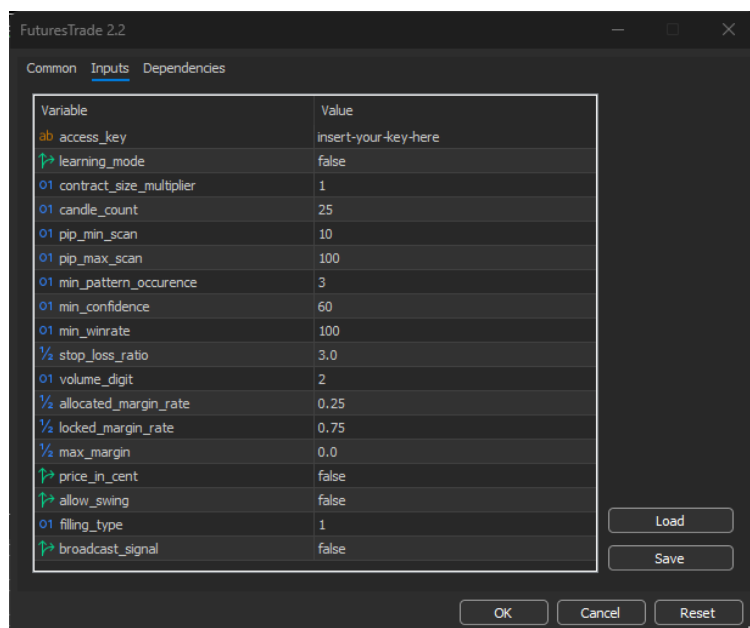
7. Hit the Start button and you will see the trading is happening on the backtest. You might need to repeat this several times so the decision will come out better



## 4.0 Live Trade Setup

To enable live trading, simply drag and drop the FuturesTrade Expert Advisor onto any chart that the bot has already been trained on.

When prompted, configure the settings exactly as tested previously. The bot will continue training even while operating in live trading mode.



Click OK, and the bot will immediately begin executing trades.

Note: The DLL setup described earlier in this document also applies to this step and must be completed beforehand.

