INSTALL\_GUIDE

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INSTALLATION AND USAGE GUIDE for GGTH EA (v1.83+)

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This guide explains how to set up and run the complete GGTH EA system,

which uses a Python backend for machine learning predictions.

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SECTION 1: PREREQUISITES

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Before you begin, you MUST have the following software installed on your Windows machine:

1. \*\*MetaTrader 5 Terminal:\*\* The trading platform itself.

2. \*\*Python:\*\* Version 3.10 or newer is recommended.

\* \*\*IMPORTANT:\*\* During installation, make sure to check the box that says "Add Python to PATH".

3. \*\*Required Python Libraries:\*\* Open a Administrator Command Prompt (cmd) and run the following command to install all necessary libraries at once:

pip install torch pandas numpy scikit-learn joblib pykalman

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SECTION 2: FILE PLACEMENT

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All file paths are relative to your MetaTrader 5 Data Folder. To find it, open MetaTrader 5 and go to "File" -> "Open Data Folder".

Its easiest to get the path if you copy it directly from windows explorer example C:\Users\USERNAME\AppData\Roaming\MetaQuotes\Terminal\LONG-STRING-OF-NUMBERS-AND-LETTERS\MQL5

Create a folder named "LSTM\_Trading" in the Files Folder

[Your MQL5 Data Folder]

|

|--- MQL5/

| |

| |--- Experts/

| | |

| | +--- GGTH.mq5 <-- The main EA source code file goes here.

| | (GGTH.ex5 will be created here after compiling)

| |

| |--- Files/

| |

| +--- LSTM\_Trading/ <-- This is your MAIN project folder.

| |

| |--- data\_processing.py

| |--- train\_combined\_model.py

| |--- retrain\_manager.py

| |--- daemon.py

| |--- generate\_backtest\_data.py

| |

| |--- EURUSD60.csv <-- Your historical data files go here.

| |--- EURJPY60.csv

| |--- USDJPY60.csv

| |--- (and so on for all required pairs)

| |

| |--- models/ <-- This folder will be CREATED AUTOMATICALLY.

| |

| +--- data/ <-- This folder will be CREATED AUTOMATICALLY.

|

|--- Common/

|

+--- Files/

|

+--- backtest\_predictions.csv <-- The backtest file MUST be MANUALLY MOVED here.

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SECTION 3: WORKFLOW

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Follow these workflows for training, backtesting, and live trading.

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>>> PHASE 1: INITIAL SETUP & TRAINING (Do this first)

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This process trains the AI model with your historical data.

1. \*\*Place Historical Data:\*\* Ensure all your `.csv` history files (EURUSD60.csv, etc.) are inside the `MQL5\Files\LSTM\_Trading\` folder.

2. \*\*Train the Models\*\*

\* Open a Command Prompt (cmd).

\* Navigate to your project directory:

cd C:\Path\To\Your\Data\Folder\MQL5\Files\LSTM\_Trading

\* python train\_combined\_model.py

\* This will take several minutes. It will automatically:

a) Train the new combined model.

b) Save the model files (`.pth` and `.pkl`) into the `models` subfolder.

c) Start the `daemon.py` script in the background.

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>>> PHASE 2: HOW TO BACKTEST

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The Strategy Tester requires a special data file and CANNOT have the daemon running.

1. \*\*IMPORTANT: STOP THE DAEMON:\*\* If the `daemon.py` script is running from Phase 1, close its command prompt window. The backtester will conflict with it.

2. \*\*Generate Backtest Data:\*\*

\* Open a Command Prompt.

\* Navigate to your project directory.

\* Run the generation script, specifying the symbol:

python generate\_backtest\_data.py EURUSD

\* This will create a new `backtest\_predictions.csv` file inside your `LSTM\_Trading` folder.

3. \*\*MOVE THE FILE:\*\*

\* Go to your `MQL5\Files\LSTM\_Trading\` folder.

\* \*\*CUT\*\* the `backtest\_predictions.csv` file.

\* Navigate to the `MQL5\Common\Files\` folder.

\* \*\*PASTE\*\* the file there. This is where the EA looks for it during backtests.

4. \*\*Run the Backtest in MetaTrader:\*\*

\* Open the Strategy Tester (Ctrl+R).

\* ndbox, and paste/select your `backtest\_predictions.csv` file there.

\* Set your desired date range and click "Start".

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>>> PHASE 3: HOW TO LIVE/DEMO TRADE

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Live trading requires the daemon to be running constantly.

1. \*\*Start the Python Daemon:\*\*

\* Open a Command Prompt.

\* Navigate to your project directory.

\* Run the daemon script:

python daemon.py

\* You will see the message `--- Advanced Combined LSTM Daemon is running. ---`

\* \*\*IMPORTANT: KEEP THIS COMMAND PROMPT WINDOW OPEN!\*\* This is the brain of the EA. If you close it, the EA will stop getting predictions.

2. \*\*Attach the EA to a Chart:\*\*

\* In MetaTrader 5, open a EURUSD, H1 chart.

\* Drag the `GGTH` EA onto the chart.

\* Ensure "Algo Trading" is enabled. can copy the text below and save it as `README.txt` in your project folder.

--- START OF FILE README.txt ---