

Documentation – Silvan Walker

Since I already do a bit of trading for fun and have tried to use trading bots in the past, most of them were just as reliable as my own trading, I wanted to create one myself and combining it with an API sounded very interesting. So, I looked at some YouTube videos on this and tried it out. In the end I mainly followed this [YouTube](#) video, and then did some additional changes by myself, I added new functions and a combined signal. Using chatbots and these websites:

- <https://technical-analysis-library-in-python.readthedocs.io/en/latest/ta.html?highlight=ichimokuindicator#ta.trend.IchimokuIndicator> (mainly this one)
- <https://github.com/binance/binance-futures-connector-python/tree/main/examples>
- <https://binance-docs.github.io/apidocs/futures/en/#change-log>

It's far from perfect (as seen in the results below) but it works if you have enough money, and the volume is big enough for the coin.

How to run it:

Install Jupyter Notebook and create a new folder in it. I downloaded Anaconda for it. In that Folder place the .ipynb and .env file. Then change the variables in the .env file to your own API keys. If you don't have binance API keys follow this [tutorial](#). Install python. Install all the necessary libraries with pip install XY (ta, dotenv, pandas, time, binance-futures-connector).

Then run all the cells in the Jupyter Notebook in order, you can change the details. If you want to stop trading click the stop icon called "interrupt the kernel".

Technical Indicators:

MACD with EMA: Detects buy/sell signals based on MACD crossover and EMA position.

Bollinger Bands: Detects breakouts above or below the bands.

Ichimoku Cloud: Detects breakouts above or below the cloud.

RSI: Detects overbought (sell) or oversold (buy) conditions.

Combined Signal: Analyses a combination of RSI, Bollinger Bands, Ichimoku Cloud, and MACD with EMA to generate a more robust signal.

Customizable details:

Take Profit (TP) and Stop Loss (SL): Set profit targets and loss limits.

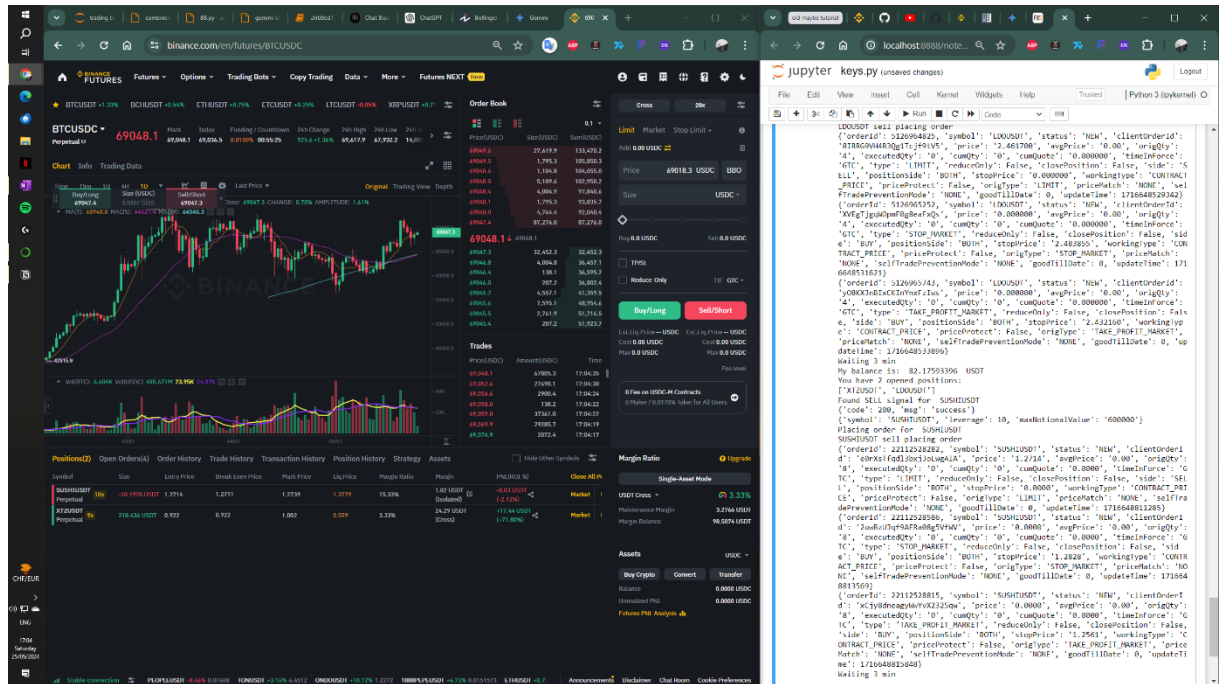
Volume: Set the amount of USDT to use for each trade.

Leverage: Set the desired leverage level (default is 10).

Position Management: Limit the number of concurrent open positions.

USDT Pairs: Automatically fetches all available USDT trading pairs.

First try, worked until I stopped kernel:



It created and deleted open orders after several loops:

Positions(2) Open Orders(3) Order History Trade History Transaction History Position History Strategy Assets Hide Other Symbols									
Time	Symbol	Type	Side	Price	Amount	Filled	Reduce Only	Post Only	Trigger Conditions TP/SL
2024-05-25 16:53:35	SUSHIUSDT	Perpetual	Take Profit Market Buy	—	10.0488 USDT	0.0000 USDT	No	No	Last Price <= 1.2561
2024-05-25 16:53:33	SUSHIUSDT	Perpetual	Stop Market Buy	—	10.2624 USDT	0.0000 USDT	No	No	Last Price >= 1.2828

Profit so far:

SUSHIUSDT Perpetual Isolated Short • Closed			
Opened 05/25/2024 16:53:31	Entry Price 1.2714 USDT	Max Open Interest 8 SUSHI	Closing PNL -0.10 USDT
Closed 05/25/2024 17:08:32	Avg. Close Price 1.2833 USDT	Closed Vol. 8 SUSHI	
LDOUSDT Perpetual Isolated Short • Closed			
Opened 05/25/2024 16:48:49	Entry Price 2.442500 USDT	Max Open Interest 4 LDO	Closing PNL -0.10 USDT
Closed 05/25/2024 16:52:09	Avg. Close Price 2.485100 USDT	Closed Vol. 4 LDO	

Symbol	Size	Entry Price	Break Even Price	Mark Price	Liq. Price	Margin Ratio	Margin	PNL(ROI %)
EOSUSDT Perpetual	10x	10.042 USDT	0.850	0.851	0.768	4.90%	1.01 USDT (Isolated)	+0.01 USDT (+1.17%)
LSKUSDT Perpetual	10x	10.049400 USDT	1.678300	1.675628	1.533357	15.21%	1.01 USDT (Isolated)	-0.03 USDT (-2.03%)
STMUSDT Perpetual	10x	9.98634 USDT	0.00807	0.00805	0.00741	20.38%	1.00 USDT (Isolated)	-0.02 USDT (-1.24%)

