

Binance BOT

This project is a modular trading bot built using Python that interacts with Binance USDT-Margined Futures via official Binance SDK. It uses API keys securely stored in a .env file and handles Market Orders, Limit Orders, and TWAP (Time-Weighted Average Price) Orders. Each strategy is encapsulated in a separate script for better modularity and maintainability.

Visuals:

```
bot.log
1 ERROR:root:Market order failed: (400, -2019, 'Margin is insufficient.', {'Content-Type': 'application/json', 'Cor
2 ERROR:root:Market order failed: (400, -2019, 'Margin is insufficient.', {'Content-Type': 'application/json', 'Cor
3 INFO:root:Market order placed: {'orderId': 5508163809, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'O1
4 INFO:root:Limit order placed: {'orderId': 5508170565, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'Oa
5 INFO:root:Limit order placed: {'orderId': 5508170969, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'hq
6 INFO:root:TWAP order 1/5 placed: {'orderId': 5508174729, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId':
7 INFO:root:TWAP order 2/5 placed: {'orderId': 5508175031, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId':
8 INFO:root:TWAP order 3/5 placed: {'orderId': 5508176724, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId':
9 INFO:root:TWAP order 4/5 placed: {'orderId': 5508177971, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId':
10 INFO:root:TWAP order 5/5 placed: {'orderId': 5508178265, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId':
11 INFO:root:Take Profit LIMIT order placed: {'orderId': 5508188581, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientO
12 ERROR:root:Simulated OCO order failed: (400, -2021, 'Order would immediately trigger.', {'Content-Type': 'applica
13 INFO:root:Take Profit LIMIT order placed: {'orderId': 5508190591, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientO
14 INFO:root:Stop Loss STOP_MARKET order placed: {'orderId': 5508190618, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clie
15 INFO:root:TP order done: {'orderId': 5508210735, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'Uk1iaq3
16 ERROR:root:OCO order failed: (400, -2021, 'Order would immediately trigger.', {'Content-Type': 'application/json'
17 INFO:root:order 1/2: {'orderId': 5508220631, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'gyz11WavEgD
18 INFO:root:order 2/2: {'orderId': 5508222786, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'snLkzCA8xyBk
19 INFO:root:Limit order: {'orderId': 5508227284, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'FyCxuk3xhc
20 INFO:root:Market order: {'orderId': 5508231779, 'symbol': 'BTCUSDT', 'status': 'NEW', 'clientOrderId': 'krAPMH0s/
21
```

```
File Edit Selection View Go Run ... Mohd_Arif_Ansari_binance_bot
EXPLORER
MOHD_ARIF_ANSARI_BINANCE_BOT
src
  advanced
    oco.py
    twap.py
    botlog
    limit_orders.py
    market_orders.py
  .env
  botlog
  README.md
  report.pdf
  requirements.txt
venv

src > advanced > oco.py > ...
65 symbol=args.symbol.upper(),
66 side=args.side.upper(),
67 quantity=args.quantity,
68 take_profit_price=args.tp,
69 stop_price=args.sl
70 )
71
72 # python src/advanced/oco.py --symbol BTCUSDT --side BUY --quantity 0.002 --tp 62000 --sl 57000
73 # python src/advanced/oco.py --symbol BTCUSDT --side SELL --quantity 0.002 --tp 62000 --sl 57000

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
(venv) PS D:\Code\Mohd_Arif_Ansari_binance_bot> python src/advanced/oco.py --symbol BTCUSDT --side SELL --quantity 0.002 --tp 62000 --sl 57000
Take Profit order placed:
{"orderId": 5508188581, "symbol": "BTCUSDT", "status": "NEW", "clientOrderId": "RfcGm3tHWCXQyeDNbaRC", "price": "62000.00", "avgPrice": "0.00", "origQty": "0.002", "executedQty": "0.000", "cumQty": "0.000", "cumQuote": "0.000000", "timeInForce": "GTC", "type": "LIMIT", "reduceOnly": false, "closePosition": false, "side": "BUY", "positionSide": "BOTH", "stopPrice": "0.00", "workingType": "CONTRACT_PRICE", "priceProtect": false, "origType": "LIMIT", "priceMatch": "NONE", "selfTradePreventionMode": "EXPIRE_MAKER", "goodTillDate": 0, "updateTime": 1753940814186}
Error placing simulated OCO order:
(400, -2821, 'Order would immediately trigger.', {'Content-Type': 'application/json', 'Content-Length': '55', 'Connection': 'keep-alive', 'Date': 'Thu, 31 Jul 2025 05:46:54 GMT', 'Access-Control-Allow-Methods': 'GET, POST, PUT, DELETE, OPTIONS', 'Server': 'Bengine', 'x-mbx-used-weight-1m': '1', 'x-mbx-order-count-18s': '0', 'x-mbx-order-count-1m': '0', 'x-response-time': '0ms', 'Access-Control-Allow-Origin': '*', 'X-Cache': 'Error from cloudfront', 'Via': '1.1 e7bb3cc1809b98dae20dda9a50be1114.cloudfront.net (CloudFront)', 'X-Amz-CF-Pop': 'DEL54-P5', 'X-Amz-CF-Id': 'Z4jiQTVaj_xVUNMmudnod-YKQlCwFs8pVKFzyOn5Qg11LZXdlVlw=='})
(venv) PS D:\Code\Mohd_Arif_Ansari_binance_bot> python src/advanced/oco.py --symbol BTCUSDT --side BUY --quantity 0.002 --tp 62000 --sl 57000
Take Profit order placed:
{"orderId": 5508190591, "symbol": "BTCUSDT", "status": "NEW", "clientOrderId": "s6rVl3jno82u3juuCRrkch", "price": "62000.00", "avgPrice": "0.00", "origQty": "0.002", "executedQty": "0.000", "cumQty": "0.000", "cumQuote": "0.000000", "timeInForce": "GTC", "type": "LIMIT", "reduceOnly": false, "closePosition": false, "side": "SELL", "positionSide": "BOTH", "stopPrice": "0.00", "workingType": "CONTRACT_PRICE", "priceProtect": false, "origType": "LIMIT", "priceMatch": "NONE", "selfTradePreventionMode": "EXPIRE_MAKER", "goodTillDate": 0, "updateTime": 1753940831997}
Stop Loss order placed:
{"orderId": 5508190618, "symbol": "BTCUSDT", "status": "NEW", "clientOrderId": "pbP6i7HwMtdy91j645mdc", "price": "0.00", "avgPrice": "0.00", "origQty": "0.002", "executedQty": "0.000", "cumQty": "0.000", "cumQuote": "0.000000", "timeInForce": "GTC", "type": "STOP_MARKET", "reduceOnly": false, "closePosition": false, "side": "SELL", "positionSide": "BOTH", "stopPrice": "57000.00", "workingType": "CONTRACT_PRICE", "priceProtect": true, "origType": "STOP_MARKET", "priceMatch": "NONE", "selfTradePreventionMode": "EXPIRE_MAKER", "goodTillDate": 0, "updateTime": 1753940832530}
(venv) PS D:\Code\Mohd_Arif_Ansari_binance_bot>
```

