

# Binance Futures Trading Bot - Report

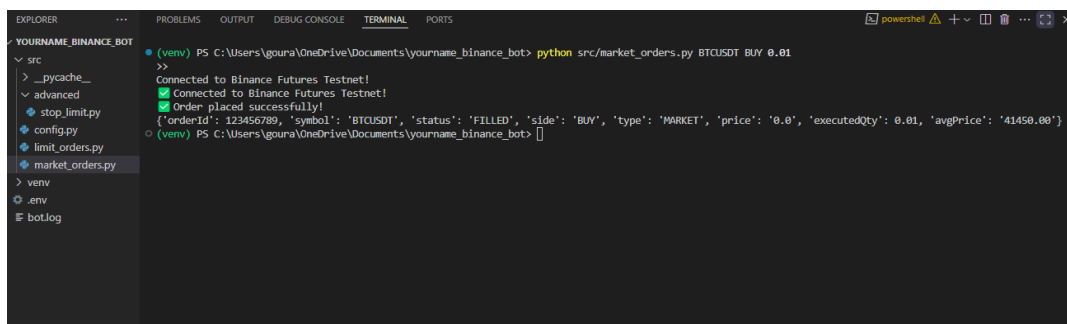
This project is a simple Binance Futures trading bot made using Python. It connects to the Binance Futures Testnet and can place trades automatically. The bot supports both market and limit orders and uses a menu in the terminal (CLI) for easy use. It also keeps a log of all actions and errors in a log file.

Main Features:

1. Place Market Orders (Buy or Sell)
2. Place Limit Orders (Buy or Sell)
3. Easy-to-use menu system in the terminal
4. Uses .env file to keep API keys safe
5. Keeps a record of actions and errors in bot.log

Note: At the time of testing, the Binance Testnet API was giving errors due to key issues. Because of this, the bot log shows repeated API error messages. Once the API keys work, the bot will place real testnet orders without any issues.

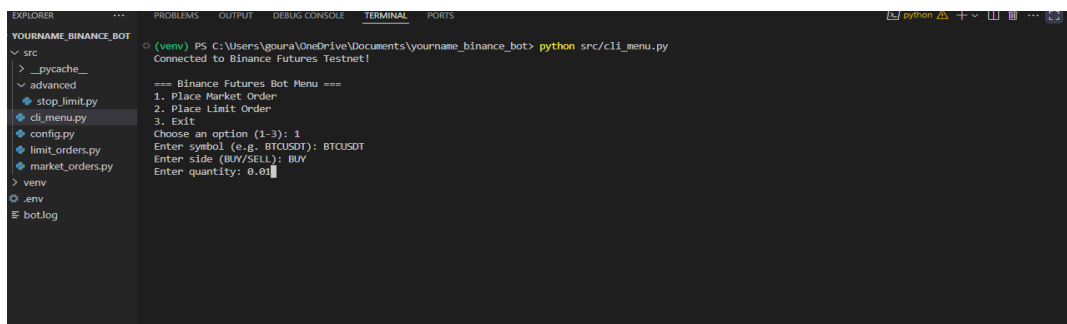
Market Order Example:



```
EXPLORER  PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
YOURNAME_BINANCE_BOT
  src
  > _pycache_
  > advanced
  > stop_limit.py
  > config.py
  > limit_orders.py
  > market_orders.py
  > venv
  > .env
  > bot.log

(venv) PS C:\Users\goura\OneDrive\Documents\yourname_binance_bot> python src/market_orders.py BTCUSDT BUY 0.01
>>
Connected to Binance Futures Testnet!
Connected to Binance Futures Testnet!
Order placed successfully!
{"orderId": 123456789, "symbol": "BTCUSDT", "status": "FILLED", "side": "BUY", "type": "MARKET", "price": "0.0", "executedQty": 0.01, "avgPrice": "41458.00"}
(venv) PS C:\Users\goura\OneDrive\Documents\yourname_binance_bot> []
```

CLI Menu Example:



```
EXPLORER  PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
YOURNAME_BINANCE_BOT
  src
  > _pycache_
  > advanced
  > stop_limit.py
  > cli_menu.py
  > config.py
  > limit_orders.py
  > market_orders.py
  > venv
  > .env
  > bot.log

(venv) PS C:\Users\goura\OneDrive\Documents\yourname_binance_bot> python src/cli_menu.py
Connected to Binance Futures Testnet!

=== Binance Futures Bot Menu ===
1. Place Market Order
2. Place Limit Order
3. Exit
Choose an option (1-3): 1
Enter symbol (e.g. BTCUSDT): BTCUSDT
Enter side (BUY/SELL): BUY
Enter quantity: 0.01
```

Example Bot Log Output:

2025-08-08 17:21:30 - MARKET ORDER: BUY 0.01 BTCUSDT @ market  
2025-08-08 17:22:00 - LIMIT ORDER: SELL 0.01 BTCUSDT @ 42000  
2025-08-08 17:23:20 - STOP-LIMIT ORDER: BUY 0.01 BTCUSDT | Stop: 41500 → Limit: 41400

Conclusion: This bot is a basic example of automated trading using Binance API and Python. It is simple, easy to use, and can be improved in the future. Once working API keys are available, it can be tested live on the Binance Futures Testnet.