Auto Trading Agent

Short Description: Fully automated trading system.

Trading Types: Currently supports long and short positions.

Smart Contract support:

QuickswapV3: https://polygonscan.com/address/
0xf5b509bb0909a69b1c207e495f687a596c168e12
AaveV3: https://polygonscan.com/address/
0x794a61358d6845594f94dc1db02a252b5b4814ad

Test Wallet (No longer in use):
https://polygonscan.com/address/0x7fdd111d9b39f9ae07f9075bea74cf44ba4e70a2

1. OHLC data aggregation

Short Description: Pricing data aggregation and persistence

Runtime Environment: The Graph
Query Language(s): GraphQL
Deployment Type: 3rd party API

2. Technical Analysis

Short Description: Technical indicators (MACD, RSI, ATR, VWAP etc.) plus trading
strategy calculations and signal generation (buy, sell, hold)

Runtime Environment: Python/Flask
Language(s): Python3.10
Libraries/Frameworks: Pandas, pandas-ta (Pandas Technical Analysis)
Deployment Type: Dockerized Container (Google Cloud Platform)

3. Signal Handling

Short Description: Conversion of signals to trades (long, short, hold) and capital
allocation

Runtime Environment: Javascript/Node.js
Language(s): Javascript
Libraries/Frameworks: ethers.js
Local Testing: Jest
Deployment Type: Serverless (Google Cloud Platform)

4. Trading API

Short Description: Crypto wallet management and on-chain smart contract
communication

Runtime Environment: Javascript/Node.js
Language(s): Javascript
Libraries/Frameworks: ethers.js
Local Testing: Jest
Deployment Type: Serverless (Google Cloud Platform)
3rd Party RPC integration: Infura

5. Backtesting

Runtime Environment: Python/Flask
Language(s): Python3.10
Libraries/Frameworks: Pandas, pandas-ta (Pandas Technical Analysis)
Deployment Type: Local instance

Cloud Hosting

Google Cloud Platform
- Serverless functions (Firebase)
- NoSQL Storage (Firestore)
- Pub/Sub (Google Cloud Platform)

Local Development Tools
Hardhat
Firebase CLI Tools
Firebase Emulator
nodemon

Code Repository
github