Trading Strategies Explanation

trading_strategy.py

This file contains functions that define various trading strategies and conditions for entering or abandoning trades. The key functions include:

1. should_open_trade: Checks if the difference between opening and closing prices exceeds a minimum threshold.

2. should_abandon_trade: Checks if the difference between the opening price and the current price exceeds a maximum loss threshold.

3. is_high_volatility: Detects high volatility based on the difference between opening and closing prices.

4. calculate_success_probability: Calculates the probability of success based on technical indicators like volume, candle strength, speed, and popularity.

5. should_enter_trade: Determines if a trade should be entered based on the calculated success probability.

main.py

This file sets up the trading environment, including GUI elements and trading schedules. It imports the trading strategy functions and uses them to decide whether to open or abandon trades. Key components include:

1. trading_loop_sonic and trading_loop_capybara: Functions to execute trades using SonicGF and CapybaraGF modules.

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2. trading_regime: Determines the trading regime based on the current hour.

3. regime_checker: Continuously checks and executes the appropriate trading regime.

4. GUI setup: Configures the GUI elements for the trading bot manager.

5. Example usage: Demonstrates how to use the trading strategy functions with sample data.