

ABOUT ME

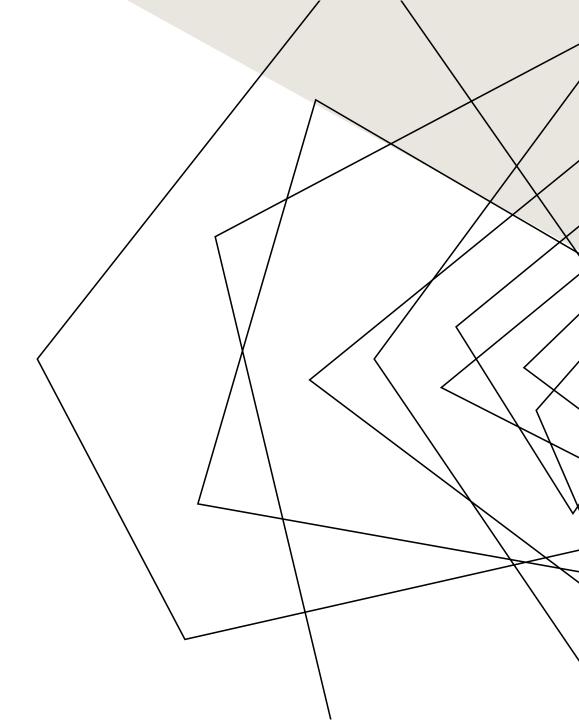
Name : Meleik Hyman

Founder & AI/ML Engineer

- 7 years + coding and working in applied ML & automation
- Specialized in RAG pipelines, agentic systems, and data engineering
- Passionate about building AI tools that simplify decision-making

Publication

 "Data Analytics to Evaluate the Impact of Infectious Disease on Economy: COVID-19 Case Study" (2021)

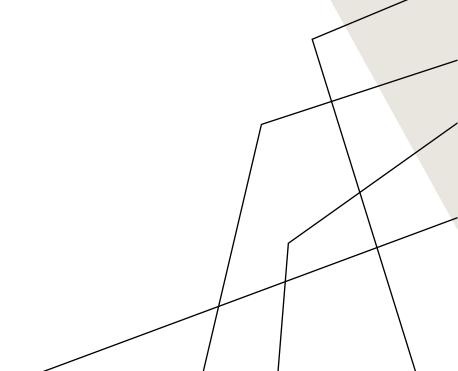




WHY THIS TOOL WAS BUILT

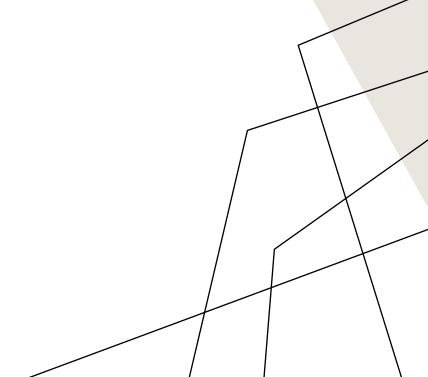
PROBLEM

- Traders spend hours doing manual charting and technical analysis
- Inconsistent methods lead to missed opportunities and late entries
- Most tools overwhelm users instead of simplifying insights



VISION

- Create an **automated analyzer** that delivers clear, data-driven signals in seconds
- Blend technical + fundamental analysis for both stocks and crypto
- Help traders act faster, with confidence and precision



CORE VALUES

- Built to remove manual charting and automate technical analysis for traders.
- Instantly identifies support and resistance zones, moving averages, and trend direction.
- Combines technical, fundamental, and sentiment data to improve accuracy of forecasts.
- Generates full market insights and one-year price projections in seconds.
- Simple input, enter a stock or crypto symbol to get instant analysis.
- Designed for both beginners and Mid-level traders with no coding required.
- Continuously evolving with upcoming features like options-chain analytics, AI-assisted trade notes, and portfolio tracking.

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PRODUCT DEMO

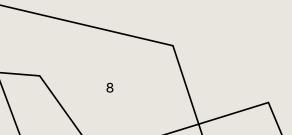


- Visit the GitHub release page and download the latest version of the analyzer.
- Extract the downloaded file to your local system.
- Ensure Python 3.13+ is installed (or use the included executable version).
- Open the folder and run the startup file to launch the tool.
- Follow on-screen prompts to enter a stock or crypto symbol for analysis.
- Verify the tool loads charts and price projections correctly.
- Reference the included README for troubleshooting or configuration details.

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How Options Data is Retrieved

1. Entry

point: evaluate_options() in src/data/options_ana
lysis.py:

- Called with symbol, current price, and optional 52week high
- Uses YahooClient to fetch options

2. Options fetching:

expirations = yh.options() # Gets all ava
ilable expiration dates
 chain = yh.option_chain(expiration) # Get
s the full options chain

3. Processing:

- Selects latest current-year expiration and first nextyear expiration
- Filters call options with strikes between current price and current price + \$10
- Returns contract symbol, strike, bid, ask, last price, IV, volume, open interest

4. Data handling:

- Converts NaN to 0.0
- If bid/ask are missing, estimates bid/ask from last price
- Validates types and floats/ints

FAQ

How yfinance Integration Works

- 1. Wrapper: src/data/yahoo_client.py
- Encapsulates yf.Ticker(symbol)
- Adds rate limiting and caching

2. Features:

- Rate limiting: token bucket (2 req/s, set in constants.py)
- Caching: stores results in-memory per ticker instance
- Retries: exponential backoff, 6 attempts
- Error handling: wraps yfinance calls with retries

3. Dependency setup (src/config/dependencies.py):

try:

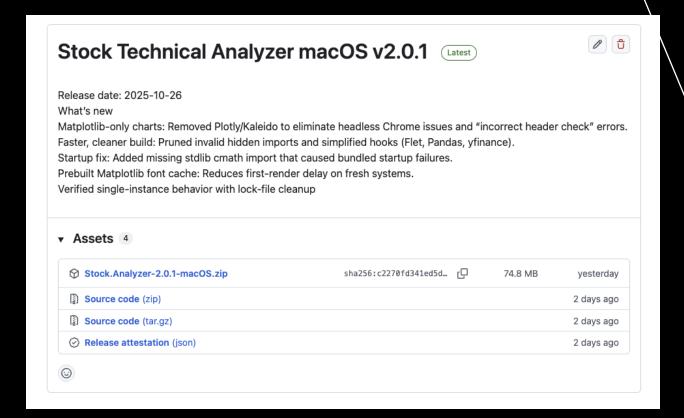
import yfinance as yf
YFINANCE_AVAILABLE = True
except ImportError:
 YFINANCE_AVAILABLE = False

Checks availability before use; GUI shows an install message if missing

4. Package version (requirements.txt):

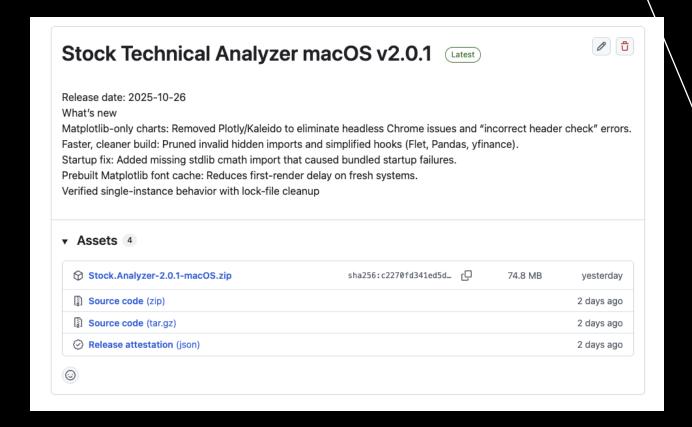
```
yfinance>=0.2.18
```

This adds rate limiting, retries, and caching on top of yfinance to stabilize options data retrieval.

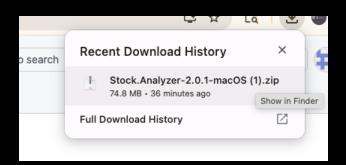




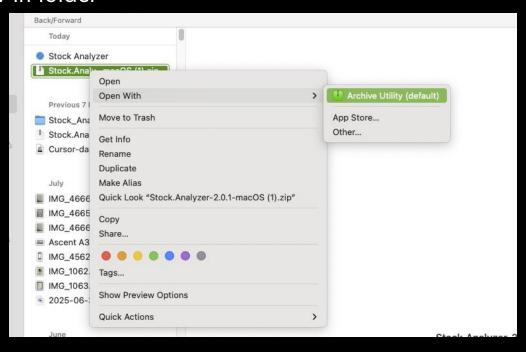
https://github.com/HelloHyman/Automat ed-Crypto-and-Stock-Analyzer-/releases



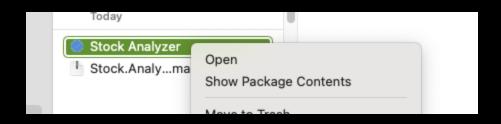
Click Stock.Analyzer-2.0.1-macOS.zip which will start the download



Click "show in folder"



"Open With" -> "Archive Utility"



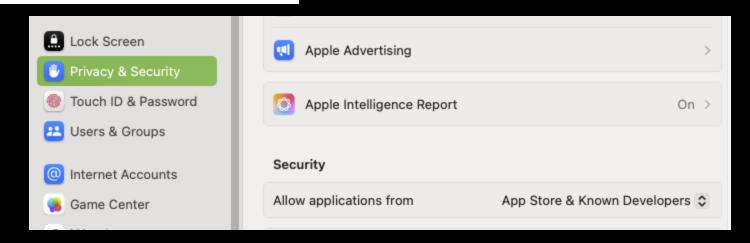
After extracting Click "Open", If you get a Warning. Do the following:

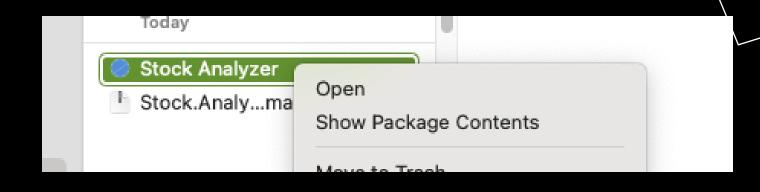
Option 1 — Temporary / Local Bypass (for testing)

Instruct users to manually allow the app:

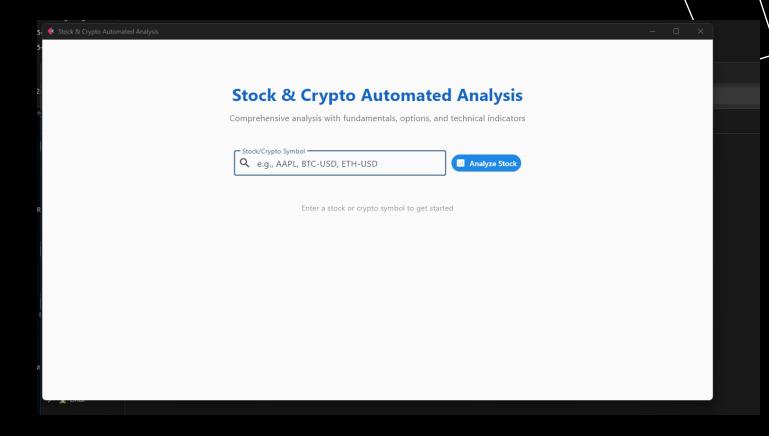
- 1. Run the app it will show the "malware" message.
- 2. Go to System Settings → Privacy & Security.
- 3. Scroll down and click "Open Anyway" next to your app name.
- 4. Click Open when prompted.

That's only needed once per app version.





Then go back and click Open. Program take about 1 minute to open on MAC

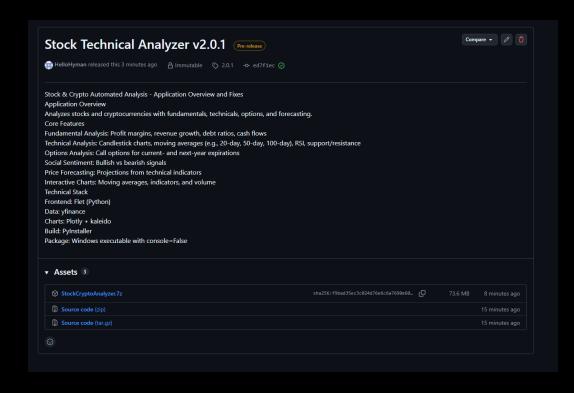


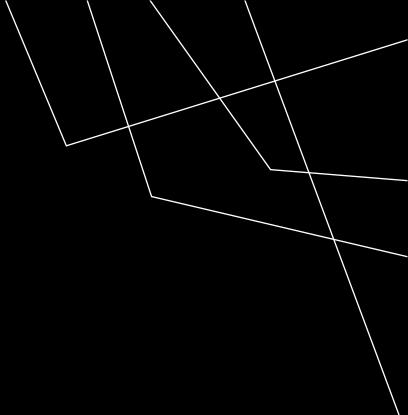
Enter Any stock or crypto happy trading

Stock Example : AAPL

Crypto: BTC-USD

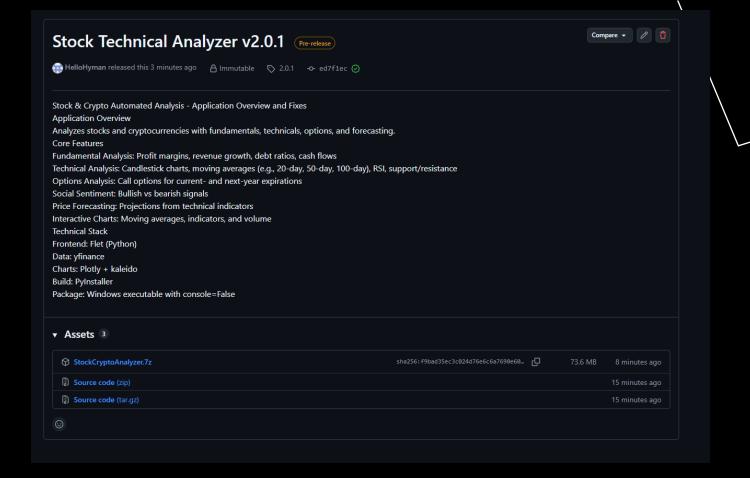
Windows OS



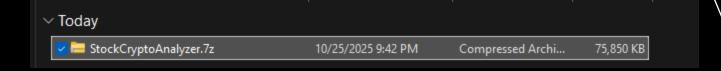




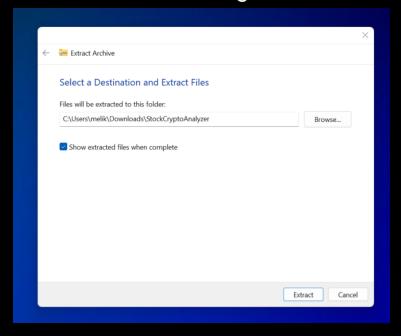
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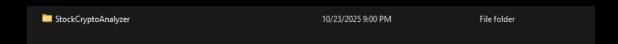
Click <u>StockCryptoAnalyzer.7z</u> which will start the download, Save to PC, Please Avoid saving to OneDrive may case permission error



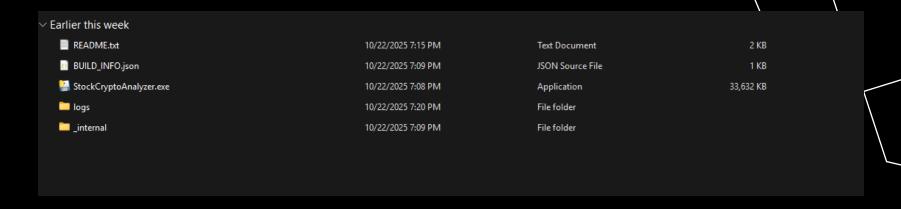
Once downloaded Right Click "Extract all"



Click "Extract"



Once Complete click into "StockCryptoAnalyzer" folder



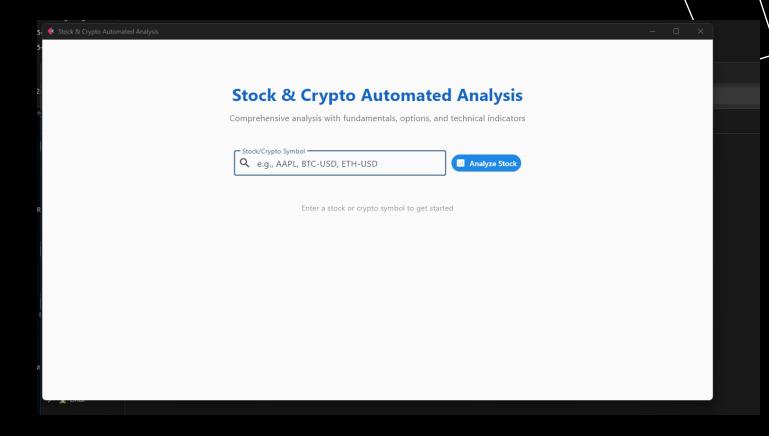
Right Click "Open" Give the Program 10-20 seconds to start



You may get a windows warning, click 'More info'



Then 'Run Anyway'



Enter Any stock or crypto happy trading

Stock Example : AAPL

Crypto: BTC-USD

