

Trading Signal Analyzer v0.91 - Project Summary



Project Files

Core Application

- **trading_signal_analyzer.py** - Main application code
 - Version: 0.91
 - License: GPL v3
 - Author: Michael Johnson (@savowood)

Documentation

- **README.md** - Complete documentation with installation, usage, and examples
- **CHANGELOG.md** - Version history and release notes
- **requirements.txt** - Python dependencies
- **LICENSE** - Full GPL v3 license text

Repository

- **GitHub:** <https://github.com/savowood/trading-signal-analyzer>
 - **Owner:** Michael Johnson (@savowood)
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What This Software Does

Stock Scanner

- Implements Ross Cameron's 5 Pillars of Day Trading
- Scans NASDAQ, NYSE, or combined US markets
- Filters for momentum setups with high probability
- Detects and filters likely delisted stocks

Technical Analysis

- VWAP with 1σ and 2σ standard deviation bands
- MACD with crossover detection
- Smart entry/exit point calculation

- Risk/reward ratio optimization

Trading Timeframes

1. **Scalping** - 1 day, 1-minute intervals
2. **Intraday** - 5 days, 5-minute intervals
3. **Short-term** - 1 month, 1-hour intervals
4. **Medium-term** - 3 months, 1-day intervals
5. **Long-term** - 1 year, 1-week intervals

Price Range Support

- **Sub-penny stocks:** \$0.0001 to \$0.01 (6 decimal precision)
 - **Penny stocks:** \$0.01 to \$1.00 (3-4 decimal precision)
 - **Dollar stocks:** \$1.00 to \$20.00 (2 decimal precision)
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Key Features

v0.91 Updates

- ✓ Five trading timeframes (was 3)
- ✓ Sub-penny stock support (down to \$0.0001)
- ✓ Smart price formatting based on value
- ✓ Delisting detection and filtering
- ✓ CHANGELOG.md created
- ✓ Bug fixes for timeframe menu

Core Features

- ✓ Ross Cameron 5 Pillars Scanner
 - ✓ VWAP + MACD technical analysis
 - ✓ Entry/exit point recommendations
 - ✓ Risk/reward ratio calculation
 - ✓ Interactive menu system
 - ✓ Session persistence
 - ✓ GPL v3 open source license
 - ✓ Comprehensive disclaimers
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Installation Requirements

Python

- Version 3.8 or higher
- Works on Windows, macOS, Linux

Dependencies

```
bash  
  
pip install yfinance pandas numpy tradingview-screener
```

Installation

```
bash  
  
git clone https://github.com/savowood/trading-signal-analyzer.git  
cd trading-signal-analyzer  
pip install -r requirements.txt  
python trading_signal_analyzer.py
```



Legal Information

License

GNU General Public License v3.0

- Free to use, modify, and distribute
- Commercial use allowed
- Must disclose source code
- Modifications must use GPL v3
- No warranty provided

Financial Disclaimer

FOR EDUCATIONAL PURPOSES ONLY

⚠ Trading involves substantial risk of loss. This software provides technical analysis tools but is NOT financial advice. Users are solely responsible for their trading decisions. Consult a licensed financial advisor before trading.

Copyright

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Methodology Attribution

Ross Cameron's 5 Pillars

Stock selection methodology by Ross Cameron of Warrior Trading:

1. Strong Relative Volume (2x+)
2. Float under 100M shares
3. Price range (optimized for momentum)
4. Recent catalyst
5. Chart pattern

Learn more: <https://www.warriortrading.com/>

Technical Analysis

Original implementation by Michael Johnson:

- VWAP bands calculation
 - MACD integration
 - Entry/exit algorithms
 - Risk management
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Project Structure



```
trading-signal-analyzer/  
├── trading_signal_analyzer.py  # Main application  
├── README.md                  # Documentation  
├── CHANGELOG.md               # Version history  
├── LICENSE                    # GPL v3 license  
├── requirements.txt           # Dependencies  
└── .gitignore                 # Git ignore rules
```


Usage Flow




1. **Launch** → Accept disclaimer
2. **Configure** → Set risk/reward ratio and timeframe

3. **Scan** → Find momentum setups or enter tickers manually
 4. **Analyze** → Get technical analysis with entry/exit points
 5. **Repeat** → Reuse scan results, change settings, or scan again
 6. **Exit** → See final disclaimer and session stats
-

Example Output

 **TRADING ANALYSIS: NVDA**
 **CURRENT PRICE: \$892.50**
 **VWAP: \$888.20 (+0.48%)**

 **TRADING RECOMMENDATION**
 **DIRECTION: LONG (STRONG signal)**

 **ENTRY POINT: \$888.20**
 **STOP LOSS: \$883.77 (Risk: \$4.43)**
 **TAKE PROFIT: \$901.49 (Reward: \$13.29)**
 **RISK/REWARD: 3.00:1**

Contributing

How to Contribute

1. Fork the repository
2. Create feature branch
3. Commit changes
4. Push to branch
5. Open pull request

Requirements

- All contributions must comply with GPL v3
- Modifications must be shared back
- Follow existing code style
- Include tests for new features

- Update documentation
-

Roadmap

Upcoming (v0.92)

- Enhanced pattern recognition
- RSI and Bollinger Bands
- CSV export functionality
- Trading journal integration

Future (v1.0)

- Backtesting engine
 - Performance metrics
 - Alert system
 - Multi-timeframe analysis
 - Real-time scanning
 - Paper trading simulation
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Support & Community

- **Issues:** Report bugs on GitHub Issues
 - **Discussions:** Ask questions in GitHub Discussions
 - **Pull Requests:** Submit improvements via PRs
 - **Stars:** Give the project a star if you find it useful!
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Project Goals

Mission

Provide traders with a free, open-source technical analysis tool that combines proven methodologies (Ross Cameron's 5 Pillars) with advanced technical indicators.

Values

- **Education First:** Emphasize learning and understanding
- **Open Source:** Share knowledge with the community
- **Risk Management:** Always prioritize risk awareness
- **Transparency:** Full disclosure of limitations
- **Community:** Encourage contributions and feedback

Non-Goals

- Not a "get rich quick" scheme
 - Not professional financial advice
 - Not a guarantee of profits
 - Not a replacement for education
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Project Status

Current Version: 0.91

Status: Active Development

Stability: Beta (feature-complete, testing ongoing)

Python Support: 3.8+

License: GPL v3

Maintenance: Actively maintained



Version History Summary

- **v0.91** (Current) - Added 5 timeframes, sub-penny support, delisting detection
 - **v0.9** (Initial) - Core scanner, VWAP/MACD analysis, risk management
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Acknowledgments

- **Ross Cameron** - 5 Pillars methodology
- **Warrior Trading** - Educational resources
- **TradingView** - Market data via screener API
- **Yahoo Finance** - Historical data via yfinance
- **Python Community** - Libraries and tools

Built with ❤️ for the trading community

"The best trade is the one you don't take when conditions aren't right."

License Summary

This project is licensed under GPL v3, which means:

You CAN:

- Use commercially
- Modify the code
- Distribute copies
- Use privately
- Sublicense

You MUST:

- Disclose source code
- Include license and copyright
- State changes made
- Use same GPL v3 license

You CANNOT:

- Hold author liable
- Use without disclaimer
- Remove copyright notices

Repository: <https://github.com/savowood/trading-signal-analyzer>

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Version: 0.91

Last Updated: 2025