

# 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  $1\sigma$  and  $2\sigma$  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/savewood/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

Copyright (C) 2025 Michael Johnson

# 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
```

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## 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
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## 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
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## 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

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## 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

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Built with ❤️ for the trading community

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

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## 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

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

**Author:** Michael Johnson (@savewood)

**Version:** 0.91

**Last Updated:** 2025