

Trading Signal Analyzer v0.91

Advanced Technical Analysis Tool for Day Trading

A Python-based stock scanner and technical analysis tool that combines Ross Cameron's 5 Pillars of Day Trading methodology with VWAP bands and MACD indicators to identify optimal entry and exit points.

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⚠ DISCLAIMER

THIS SOFTWARE IS FOR EDUCATIONAL PURPOSES ONLY

Trading stocks, options, and other securities involves **substantial risk** and can result in **significant financial losses**. This software is provided as an educational tool and technical analysis aid only.

- **NOT financial advice** - Consult a licensed financial advisor before trading
- **NOT investment advice** - You are solely responsible for your trading decisions
- **NO WARRANTIES** - Author assumes no liability for any losses incurred
- **Past performance does not guarantee future results**

USE AT YOUR OWN RISK. ONLY TRADE WITH MONEY YOU CAN AFFORD TO LOSE.

🎯 Features

Ross Cameron Scanner

- Scans NASDAQ, NYSE, or all US markets
- Filters stocks based on the **5 Pillars of Day Trading**:
 1. Strong Relative Volume (2x+ average)
 2. Float under 100 million shares
 3. Price range \$0.0001-\$20 (includes sub-penny stocks)
 4. Recent catalyst (10%+ price movement)
 5. Chart pattern (breakout or consolidation)
- **Sub-penny stock support** - Displays accurate pricing for stocks under \$0.01

Technical Analysis

- **VWAP (Volume Weighted Average Price)** with 1σ and 2σ bands
- **MACD** (Moving Average Convergence Divergence) with crossover detection
- **Automatic entry/exit point calculation**
- **Risk/Reward ratio optimization** (default 3:1, customizable)
- **Position relative to VWAP bands** (overbought/oversold zones)

User-Friendly Interface

- Interactive menu system
- Multiple analysis timeframes (intraday, short-term, medium-term)
- Analyze scanned stocks or manual entries
- Save scan results for repeated analysis
- Adjust settings on the fly

Requirements

- Python 3.8 or higher
- Internet connection (for real-time data)

Dependencies

```
bash
```

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

Installation

Option 1: Clone from GitHub

```
bash
```

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

Option 2: Direct Download

1. Download [trading_signal_analyzer.py](#)

2. Install dependencies:

```
bash
```

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

Usage

Basic Usage

```
bash
```

```
python trading_signal_analyzer.py
```

First Run

1. **Accept Disclaimer** - You must accept terms and conditions
2. **Set Risk/Reward Ratio** - Default is 3:1, can be customized
3. **Choose Timeframe** - Scalping (1m), Intraday (5m), Short-term (1h), Medium-term (1d), or Long-term (1wk)

Main Menu Options

1. Run Ross Cameron Scanner

- Scans markets for momentum setups

- Shows top candidates with scores
- Select stocks to analyze

2. Analyze from Last Scan

- Reuse previous scan results
- Quick analysis without rescanning

3. Enter Ticker Manually

- Analyze specific stocks
- Comma-separated for multiple tickers

4. Change Risk/Reward Ratio

- Adjust profit targets
- Common ratios: 2:1, 3:1, 5:1

5. Change Timeframe

- Switch between scalping/intraday/short/medium/long-term analysis

6. Quit

- Clean exit with final disclaimer

📊 Example Output

📊 TRADING ANALYSIS: NVDA
💰 CURRENT PRICE: \$892.50
📈 VWAP: \$888.20 (+0.48%)
⭐ Position: Between VWAP and 1σ (Upper)

📈 VWAP BANDS:
+2 σ : \$905.30
+1 σ : \$896.75
VWAP: \$888.20
-1 σ : \$879.65
-2 σ : \$871.10

📊 MACD:
MACD Line: 2.3456

Signal Line: 1.8923

Histogram: 0.4533

 BULLISH CROSSOVER!

TRADING RECOMMENDATION

 DIRECTION: LONG (STRONG signal)

 ENTRY POINT: \$888.20

Reason: Wait for pullback to VWAP

 STOP LOSS: \$883.77

Risk: \$4.43 (0.50%)

 TAKE PROFIT: \$901.49

Reward: \$13.29 (1.49%)

 RISK/REWARD: 3.00:1

3:1 ratio is appropriate

Methodology

Ross Cameron's 5 Pillars

This software implements the stock selection methodology taught by Ross Cameron at [Warrior Trading](#). The 5 Pillars identify stocks with:

- High probability momentum setups
- Sufficient liquidity for day trading
- Volatility for profit potential
- Recent catalyst for price movement
- Technical pattern confirmation

Learn more:

- [Warrior Trading YouTube](#)
- [Ross Cameron's Trading Strategies](#)

Technical Analysis

The technical analysis implementation (VWAP, MACD) is original work by the author:

VWAP Bands:

- VWAP = Volume Weighted Average Price
- Standard deviation bands show support/resistance
- Price position indicates overbought/oversold conditions

MACD:

- 12/26/9 default settings
 - Crossovers signal potential entries
 - Histogram shows momentum strength
-

🛠 Configuration

Timeframe Options

Timeframe	Period	Interval	Best For
Scalping	1 day	1 minute	Ultra-short term, quick trades
Intraday	5 days	5 minutes	Day trading, same-day entries/exits
Short-term	1 month	1 hour	Swing trading, multi-day holds
Medium-term	3 months	1 day	Position trading, weeks to months
Long-term	1 year	1 week	Investment trading, months to year

Risk/Reward Ratios

Ratio	Description	Use Case
2:1	Conservative	High probability setups
3:1	Balanced	Default, most trades
5:1	Aggressive	Strong momentum, wider stops

🤝 Contributing

This project is open source under GPL v3. **All contributions are welcome!**

How to Contribute

1. Fork the repository
2. Create a feature branch (`(git checkout -b feature/amazing-feature)`)
3. Commit your changes (`(git commit -m 'Add amazing feature')`)

4. Push to the branch (`(git push origin feature/amazing-feature)`)

5. Open a Pull Request

Contribution Guidelines

- Follow existing code style (type hints, docstrings)
- Add comments for complex logic
- Test thoroughly before submitting
- Update README if adding features

Important: Per GPL v3, all modifications must be shared back to the community.



License

This project is licensed under the **GNU General Public License v3.0**.

What this means:

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

See the [LICENSE](#) file for full details.

👤 Author

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- GitHub: [@savewood](#)
 - Project: [Trading Signal Analyzer](#)
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🙏 Acknowledgments

- **Ross Cameron** - For the 5 Pillars of Day Trading methodology

- **Warrior Trading** - Educational resources and trading community
 - **TradingView** - Screener API for market data
 - **Yahoo Finance** - Historical price data via yfinance
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Educational Resources

Recommended Learning

- [Warrior Trading Free Course](#)
- [TradingView Education](#)
- [Investopedia Trading Basics](#)

Risk Management

- Never risk more than 1-2% of account per trade
 - Always use stop losses
 - Paper trade before using real money
 - Understand position sizing
 - Have a trading plan
-

Troubleshooting

Common Issues

"**TradingView screener not available**"

```
bash
```

```
pip install tradingview-screener
```

"**Could not analyze [ticker]**"

- Check ticker symbol is correct
- Ensure internet connection
- Some stocks may have insufficient data

"**No stocks found in scan**"

- Markets may be quiet

- Markets may be quiet
- Try different market selection
- Adjust timeframe

Rate Limiting

- Yahoo Finance may throttle requests
 - Wait a few minutes between large scans
 - Use scanner results multiple times (option 2)
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📞 Support

- **Issues:** [GitHub Issues](#)
 - **Discussions:** [GitHub Discussions](#)
 - **Pull Requests:** [GitHub PRs](#)
-

🔮 Roadmap

Planned Features (v1.0+):

- Backtesting engine
 - Trade journaling/logging
 - Multiple timeframe analysis
 - Additional technical indicators (RSI, Stochastic)
 - Alert system for setups
 - Export analysis to CSV/PDF
 - GUI interface (optional)
 - Real-time scanning mode
-

⭐ Star History

If you find this tool useful, please consider giving it a star on GitHub!

📄 Legal

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Built with ❤️ for the trading community

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