Changelog

All notable changes to Trading Signal Analyzer will be documented in this file.

The format is based on Keep a Changelog, and this project adheres to Semantic Versioning.

[0.91] - 2025-01-XX

Added

- **Five trading timeframes** instead of three:
  - Scalping (1 day, 1-minute intervals)
  - Intraday (5 days, 5-minute intervals)
  - Short-term (1 month, 1-hour intervals)
  - Medium-term (3 months, 1-day intervals)
  - Long-term (1 year, 1-week intervals)
- **Sub-penny stock support** - Now scans and displays stocks from $0.0001 to $20
- **Smart price formatting** - Automatically adjusts decimal places based on stock price:
  - 6 decimals for prices under $0.01
  - 4 decimals for prices $0.01-$0.10
  - 3 decimals for prices $0.10-$1.00
  - 2 decimals for prices $1.00+
- **Delisting detection** - Automatically filters out likely delisted stocks based on:
  - Ticker suffix indicators (Q, E, D)
  - Zero or extremely low volume
  - Extremely low market capitalization
  - Suspiciously low prices with no activity
- **CHANGELOG.md** - Version history and release notes

Fixed

- Timeframe change menu now shows all 5 options consistently
- Scanner price range filter updated to include sub-penny stocks ($0.0001 minimum)

- VWAP bands and entry/exit points now format with appropriate decimals for sub-penny stocks

Changed

- Updated scanner to scan from $0.0001 instead of $1.00 minimum
- Improved display formatting for scanner results table
- Enhanced precision in all price-related calculations

[0.9] - 2025-01-XX

Added

- **Initial release** of Trading Signal Analyzer
- Integrated Ross Cameron 5 Pillars Scanner
    - Relative Volume filter (2x+ average)
    - Float filter (under 100M shares)
    - Price range filter ($1-$20)
    - Catalyst detection (10%+ movement)
    - Pattern recognition (breakout/consolidation)
- **Technical Analysis Engine**
    - VWAP calculation with 1σ and 2σ bands
    - MACD indicator with crossover detection
    - Automatic entry/exit point calculation
- **Risk Management**
    - Configurable risk/reward ratios (default 3:1)
    - Smart stop loss placement
    - Take profit optimization
    - Risk/reward ratio recommendations
- **Interactive Menu System**
    - Run scanner for momentum setups
    - Analyze from previous scan results
    - Manual ticker entry

    - Change risk/reward ratio on the fly
    - Change timeframe dynamically

- **Three Initial Timeframes**
    - Intraday (5 days, 5-minute intervals)
    - Short-term (1 month, 1-hour intervals)
    - Medium-term (3 months, 1-day intervals)

- **Legal & Compliance**
    - GPL v3 open source license
    - Comprehensive financial disclaimer
    - User acceptance required at startup
    - Exit disclaimer with risk reminders

- **Documentation**
    - README.md with installation and usage instructions
    - Requirements.txt for dependency management
    - Inline code documentation with docstrings
    - Type hints for better code clarity

Features

- Real-time market data from TradingView screener
- Historical data from Yahoo Finance (yfinance)
- Support for NASDAQ, NYSE, and combined US markets
- Position analysis relative to VWAP bands
- MACD bullish/bearish signal strength classification
- Session persistence (scan results, settings)
- Batch analysis of multiple stocks
- Formatted output with emojis and clear structure

Technical

- Python 3.8+ support
- Dependencies: yfinance, pandas, numpy, tradingview-screener

- Modular class-based architecture
- Type-annotated functions
- Comprehensive error handling
- Clean separation of concerns

Release Notes

Version Numbering

- **Major.Minor.Patch** format (Semantic Versioning)
- Major: Breaking changes or significant feature additions
- Minor: New features, backwards compatible
- Patch: Bug fixes, small improvements

Compatibility

- **Python**: 3.8 or higher required
- **Operating Systems**: Windows, macOS, Linux
- **Internet**: Required for real-time data

Known Issues

See GitHub Issues for current known issues and feature requests.

Upcoming Features (Roadmap)

Planned for v0.92

- [ ] Enhanced pattern recognition algorithms
- [ ] Additional technical indicators (RSI, Bollinger Bands)
- [ ] Export analysis results to CSV
- [ ] Trading journal integration

Planned for v1.0

- [ ] Backtesting engine
- [ ] Performance metrics and statistics
- [ ] Alert system for setups

- [ ] Multi-timeframe analysis view
- [ ] Real-time scanning mode
- [ ] Paper trading simulation

Future Considerations

- [ ] GUI interface (optional)
- [ ] Mobile app companion
- [ ] Community sharing of setups
- [ ] Advanced charting integration
- [ ] Machine learning price predictions

Contributing

See CONTRIBUTING.md for guidelines on contributing to this project.

All contributions must comply with GPL v3 license requirements.

Support

- **Bug Reports**: GitHub Issues
- **Feature Requests**: GitHub Discussions
- **Questions**: GitHub Discussions Q&A

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