



Forecasting Directional Movements of a stock



DESIGN PROJECT AY 2024-25

Objectives

- Predict bullish and bearish trends with precision.
- Enhance decision-making for investments.
- Integrate technical indicators for better market insights.

Techniques Explored

- SMC (Smart Money Concepts): Understanding institutional moves.
- Elliott Waves: Identifying cycles and patterns.
- Fibonacci Analysis: Using golden ratios .
- RSI (Relative Strength Index): Measuring momentum to detect overbought/oversold.
- Chart Patterns: Recognizing head & shoulders, triangles, and other formations.

Methodology

- Data Collection: Analyze historical stock price data.
- Technical Indicators: Apply advanced methods like Fibonacci retracements and RSI.
- Pattern Recognition: Decode Elliott Wave cycles and chart setups.
- Validation: Test forecasts against real market.

Why It Matters

- Helps retail and institutional traders anticipate market movements.
- Bridges the gap between theory and practice in financial modeling.
- Contributes to a deeper understanding of financial analytics.



DECODING THE STOCK MARKET,
ONE PATTERN AT A TIME

"Contributes to a deeper understanding
of financial analytics"



TradingView Pine Script

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