

Fractal Volatility Index for TSLA : 0.428. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



Red: High Risk FVI zone, Orange: Medium Risk FVI zone, Green: Low Risk FVI zone

Verv Stock Analysis Report: Tesla Inc TSLA FVI 0.428

Analysis Period: 2021-04-22 to 2026-04-22

Global Geopolitical Fractal Volatility (Gold, Forex, TWI (Tariffs) and GHG Emissions)

FVI_GOLD: 0.593608 => Moderate gold volatility, likely reflecting investor caution
FVI_FX: 0.434301 => Low FX volatility; currency markets stable for now
FVI_TWI: 0.469352 => Moderate TWI volatility; minor export/import fluctuations
GHG_CV: 0.223036 => Moderate emissions volatility; sector-level uncertainty exists
Primary Risk Driver: Gold volatility is a good proxy for global geopolitical risk. 0.593608.

The Fractal Volatility Index (FVI) is scaled between 0 and 1 reflecting the stock's overall volatility. A higher score indicates greater unpredictability and market instability.

Unlike traditional volatility indicators like VIX or Beta, FVI does not track short-term fluctuations—it detects hidden instability before it manifests in price swings.

FVI is a composite score that incorporates Lyapunov Exponent, Hurst Exponent, and Detrended Fluctuation Analysis (DFA).

Breakout Probability Score (BPS): 0.556

Breakout Probability Score (BPS) quantifies price momentum likelihood: BPS > 1.5 suggests high breakout potential, while BPS < 0.5 indicates consolidation.

(BPS > 1.5 High breakout potential - Strong momentum, watch for confirmation.)

(BPS 0.5 - 1.5 Moderate breakout likelihood - Possible move, monitor closely.)

(BPS < 0.5 Low breakout probability - Likely consolidation or range-bound.)

Request ID: FVI

Account ID: WeeklyReport

Fractal & Statistical Analysis

FVI Score: 0.428 (Fractal Volatility Index FVI)

DFA Result: 0.5558 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0144 (Measures chaos and predictability)

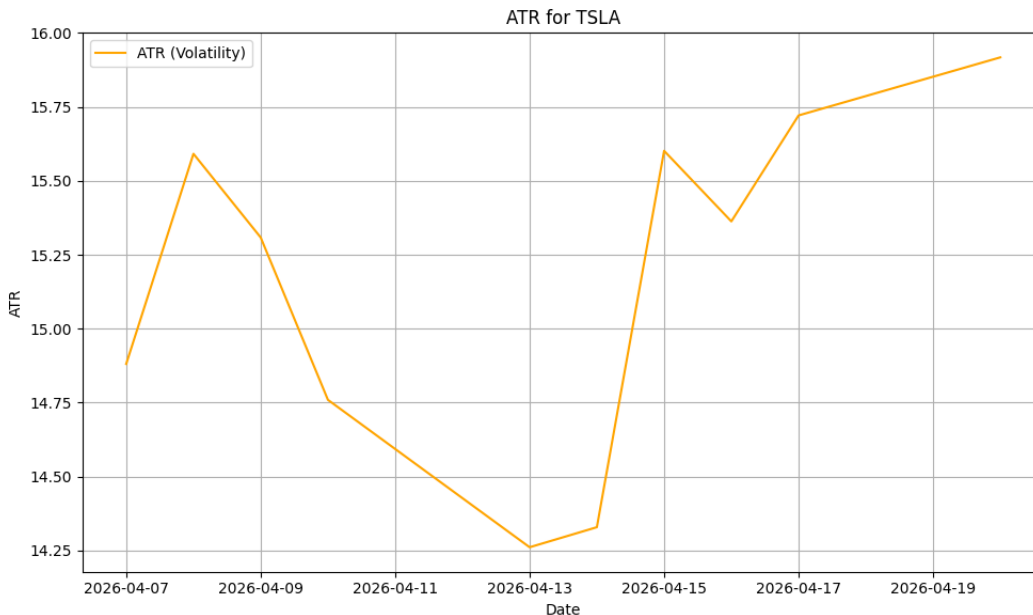
Hurst Exponent: 0.5555 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 392.50 is within the Bollinger Bands range (333.68 - 404.38).

Latest ATR: 15.9175

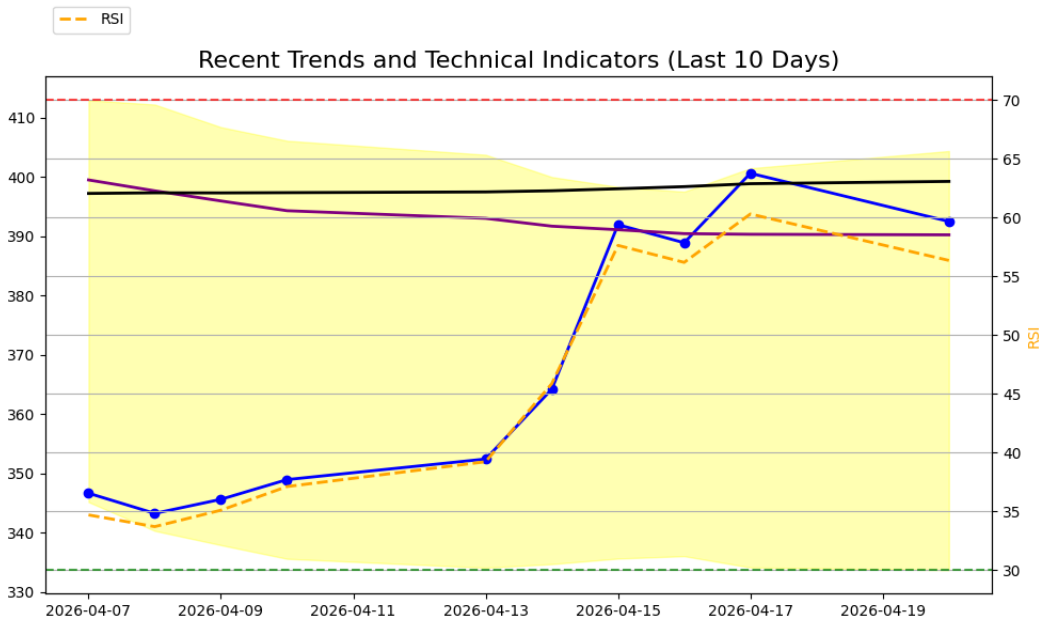
Average True Range (ATR)



The ATR measures the recent price volatility of a stock, calculating the average range between its high and low prices over a given period (usually 14 days). A higher ATR indicates greater market volatility, and a lower ATR indicates less volatility.

Low ATR (below 2): Stable stock, Moderate ATR (2-5): Mild volatility, High ATR (above 5): Highly volatile stock

Technical Indicators



Left y axis - Stock Price. Right y axis - RSI range values (30 - 70)

Close Price(blue line with circles) - Key indicator of the stock's price action and is often used to identify trends or patterns. A rising close price generally indicates an upward trend, while a falling close price shows a downward trend.

SMA_50 and SMA_200 - (purple line SMA_50, black line SMA_200) Simple Moving Averages (SMA) calculated over 50 and 200 periods. Helps identify the direction of stock price trend.

Bollinger Bands - (shaded in yellow): Bollinger Bands consists of upper, middle and lower prices. The middle line is the moving average. Price reaching the upper band can indicate an overbought condition, suggesting the stock might be due for a pullback. Price touching the lower band could indicate an oversold condition, suggesting a potential buying opportunity. When the price moves outside the bands, it may indicate extreme conditions.

Relative Strength Index RSI - (orange dotted line): The RSI is a momentum oscillator that measures the speed and change of price movements. An RSI above 70 suggests the stock is overbought and might be due for a pullback. An RSI below 30 suggests the stock is oversold and might be due for a rebound. An RSI in between indicates a more neutral market condition.

AI-Generated Market Insights

Investment Report:

--- INVESTMENT REPORT ---

1. Volatility & Breakout Potential

TSLA's FVI of 0.428 indicates moderate volatility, suggesting a state of relative stability compared to the broader market. However, the Lyapunov score of 0.014 indicates a degree of system instability. The Bollinger Bands are currently static, and the volume change of 20.49% does not strongly confirm price moves.

2. Market Sentiment

The stock's behavior, indicated by 1472829456000, suggests institutional-driven activity. Combined with the volatility and breakout dynamics, investor sentiment appears to be cautiously optimistic.

3. Geopolitical Risk Assessment

With the market-wide Gold FVI at 0.594, there is a high level of geopolitical tension. TSLA, being a globally active company, may face tariff exposure and supply chain disruptions.

4. Sector and Supply Chain Exposure

As an electric vehicle manufacturer, TSLA is dependent on Asia-sourced components like lithium and semiconductors. The company is also exposed to volatility in energy prices due to its reliance on electricity for manufacturing and charging infrastructure.

--- STRATEGY RECOMMENDATION ---

Considering the current market conditions and TSLA's metrics, the stock appears to be in a consolidation phase. A mean-reversion strategy may be optimal at this point, given the moderate FVI and lack of strong breakout signals. Investors should also consider hedging their positions due to the potential geopolitical risks.

--- FINAL TAKEAWAY ---

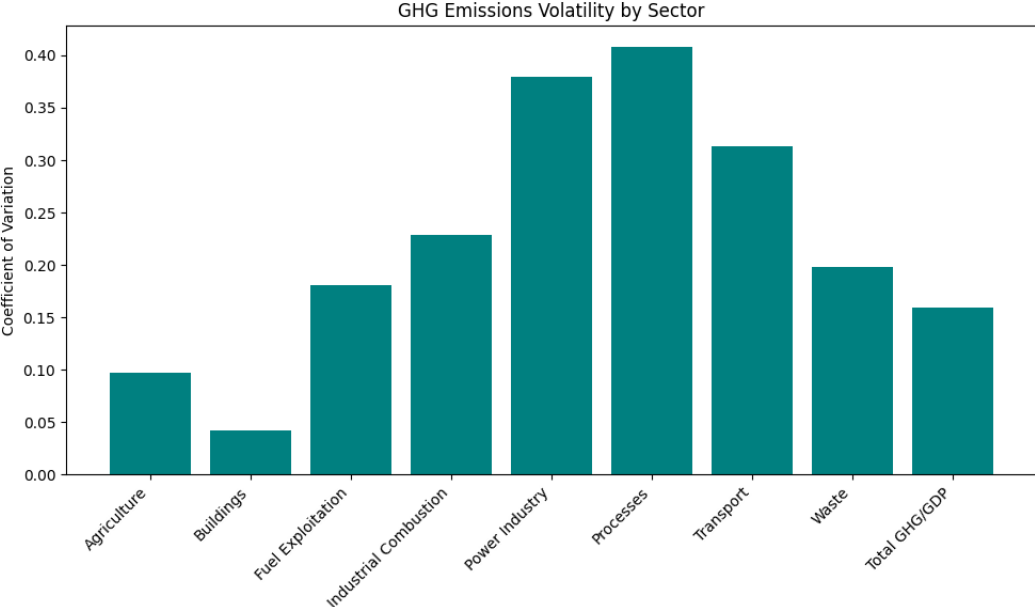
TSLA is showing signs of stability amidst moderate volatility, with potential risks due to geopolitical tension and supply chain dependencies. Investors should proceed with caution, consider a mean-reversion strategy, and hedge against potential risks.

Market Capitalization: 1472829456000, Industry: AUTO MANUFACTURERS, Latest Volume: 64603868, Description: Tesla Inc, Sector: CONSUMER CYCLICAL, Price to Book: 18.3, Trailing PE: 356.82, Forward PE: 192.31, Enterprise to Ebitda: 125.29, Enterprise to Revenue: 15.54, Profit Margins: 0.04

The trading volume has changed by 20.49% over the past week, indicating potential shifts in market sentiment. Please factor this into the volatility and risk analysis.

Beta measures stock volatility relative to the overall market: 1.92
Beta of 1.92 suggests high volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



No GHG score available for Consumer cyclical sector.

Disclaimer: The Fractal Volatility Index (FVI) measures structural market instability, not short-term price direction. High FVI (red dot) does not necessarily indicate a price breakout—rather, it signals unpredictable price behavior and potential structural shifts. While market instability can precede significant moves in either direction, Verv Stock Reports do not predict price trends but offer insight into underlying volatility patterns. Investors should interpret FVI alongside fundamental and technical analysis before making decisions.

Stock Market Price Credibility Report

Analysis based on current global macroeconomic and geopolitical information.

Market_Price_Credibility_Analysis:

```
{  
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  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -1,  
  "Deception_Risk": 0.846,  
  "Trumpery_Alert": true,  
  "Summary": "Welcome to the economy where logic took early retirement."  
}
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Based on the current state of the global and U.S. financial landscape, there appears to be a significant disconnect between the economic narrative and the underlying fiscal, monetary, and geopolitical realities.

The increasing U.S. debt and deficit levels, coupled with declining foreign demand for U.S. bonds, suggest that the U.S. economy may not be as robust as some narratives suggest. Central bank interventions, such as rate cuts and QE, have also raised concerns about the health of the economy. Furthermore, the use of tariffs and sanctions as economic tools have created uncertainty and volatility in the market.

The gap between inflation and official interest rate policy further indicates a disconnect. Despite low rates, inflation remains subdued, suggesting that the economy is not as strong as the low rates would suggest.

The increasing influence of BRICS+ and de-dollarization trends indicate a shift in global economic power, which could have significant implications for the U.S. economy. The volatility of gold, often used as a geopolitical hedge, further suggests a disconnect between the economic narrative and reality.

Therefore, based on these indicators, the following JSON response is appropriate:

```
{  
  "NRDI": 0.8,  
  "Trumpery_Alert": true,  
  "Satirical_Summary": "If you believe this is market forces, we've got a bridge to sell you."  
}
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Deception Risk:

Between 0 and .2, markets appear fundamentally sound, no price distortion.

Between .2 and .4 there may be some irrationality or manipulation. Caution is advised.

Between .4 and .6 there are signals of disconnect between narratives and reality.

Between .6 and .8 distortions mean possible financial gaslighting.

Between .8 and 1 signals a confidence scam - you are being sold a bridge.

What Price Credibility Sell You a Bridge Index captures:

Price to Volume Divergence PVD.' When price rises while volume drops is suspicious behavior.

A Narrative Reality Dislocation Index NRDIndex is an AI score for disconnect between corporate statements and underlying fundamentals.

A Volatility Persistence Score VPI. When volatility indicators stay low despite geopolitical/economic chaos.

The Macro Score includes Tariff Impact Denial. High tariffs plus high exposure plus rising stock. This may be a trumpery illusion alert.

Treasury Detector TFD Liquidity Masking Metric. Fed/Treasury injections may be affecting retail activity or debt spreads.

The Media Sentiment Mismatch is included. This is where news tone is contrary to actual market data (e.g. bullish despite bond collapse).

Note: Trumpery derives from a French word meaning to deceive, in many dictionaries showy but worthless.

_____ **END OF REPORT** _____