

Fractal Volatility Index for NVDA : 0.401. 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: NVIDIA Corporation NVDA FVI 0.401

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): 0.036

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: 0.401 (Fractal Volatility Index FVI)

DFA Result: 0.5041 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0144 (Measures chaos and predictability)

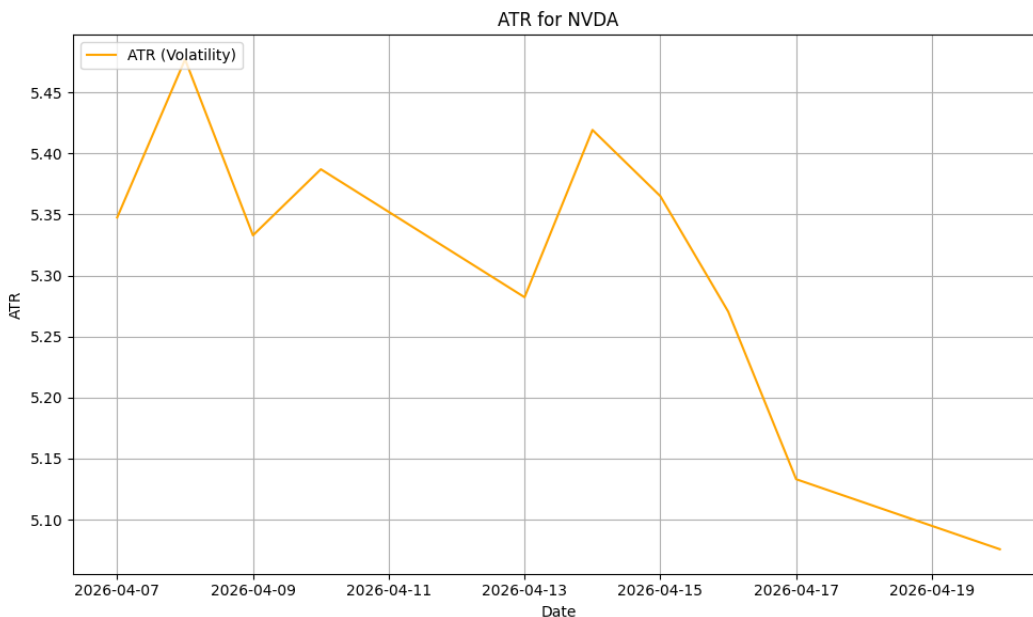
Hurst Exponent: 0.4661 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 202.06 is within the Bollinger Bands range (160.57 - 205.25).

Latest ATR: 5.0758

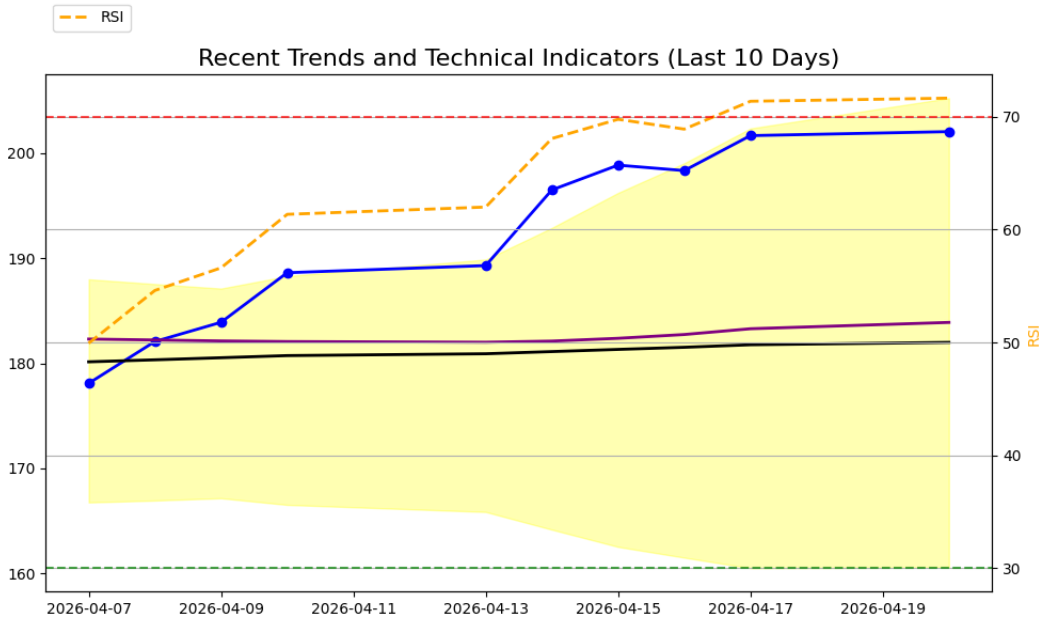
Average True Range (ATR)



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

- NVDA is currently in a regime of relative stability, with a Fractal Volatility Index (FVI) of 0.401, which is lower than the market-wide FVI indicators, suggesting less systemic risk.
- The Lyapunov metric of 0.014 indicates lower instability compared to market-wide values.
- The Bollinger Bands range suggests no significant breakout, and the volume change of -10.67% does not confirm a strong price move.

2. Market Sentiment

- The market sentiment for NVDA seems to be driven by institutional investors, as indicated by the 4911068086000 figure.
- The lack of a strong breakout signal and the decrease in volume suggest a cautious investor mood.

3. Geopolitical Risk Assessment

- NVDA's exposure to geopolitical risks appears to be moderate. The technology sector has a low GHG impact score of 0.048, suggesting less exposure to sectoral emissions risk.
- However, the company may be exposed to global trade disruptions, as indicated by the TWI FVI of 0.469.

4. Sector and Supply Chain Exposure

- NVDA, being a technology company, may be dependent on Asia-sourced components, which could expose it to supply-chain risks.
- However, without detailed supply chain data, it's difficult to accurately assess this risk.

--- STRATEGY RECOMMENDATION ---

- The current trading phase for NVDA appears to be in consolidation, with no clear breakout signals.
- The optimal strategy would be to adopt a cautious approach, given the lack of strong breakout signals and the potential geopolitical risks.

--- FINAL TAKEAWAY ---

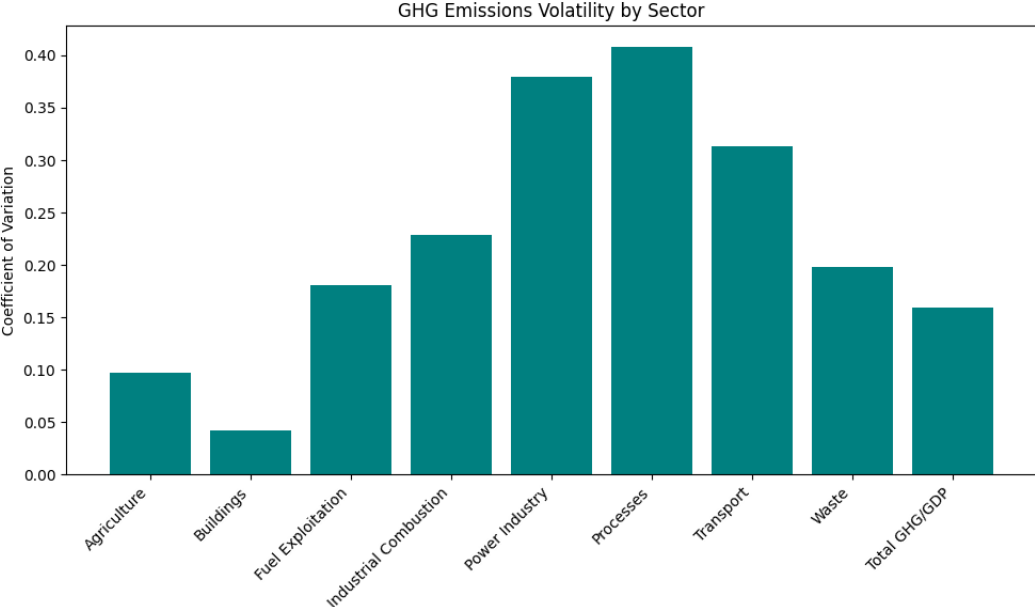
NVDA is in a phase of relative stability with low systemic risk, but the lack of strong breakout signals and potential geopolitical risks suggest a cautious approach. Investors should keep an eye on global trade disruptions and supply chain risks in the technology sector.

Market Capitalization: 4911068086000, Industry: SEMICONDUCTORS, Latest Volume: 119381388, Description: NVIDIA Corporation, Sector: TECHNOLOGY, Price to Book: 31.16, Trailing PE: 41.15, Forward PE: 24.75, Enterprise to Ebitda: 33.55, Enterprise to Revenue: 22.46, Profit Margins: 0.556

The trading volume has changed by -10.67% 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: 2.33
Beta of 2.33 suggests high volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for the Technology 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,  
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  "Deception_Risk": 0.846,  
  "Trumpery_Alert": true,  
  "Summary": "Tariffs are up, rates are down, and gravity no longer applies."  
}
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Based on the specified indicators, here is the financial analysis:

1. Rising U.S. debt and deficit levels: The U.S. debt and deficit levels have been on the rise. This is a cause for concern as it could lead to higher interest rates and inflation. However, the narrative often downplays these risks.
2. Changes in U.S. Treasury bond yields and issuance: The yields on U.S. Treasury bonds have been volatile, indicating uncertainty. Issuance has also increased due to higher government spending, which could potentially saturate the market.
3. Declining foreign demand for U.S. bonds: Reports indicate a decline in foreign demand for U.S. bonds. This could affect the U.S.'s ability to finance its debt and lead to higher interest rates.
4. Central bank interventions: The Fed has been intervening in the market through rate cuts and QE, which can distort market prices and create asset bubbles.
5. Use of tariffs and sanctions as economic tools: The use of tariffs and sanctions can distort trade flows and create economic inefficiencies.
6. Inflation vs. official interest rate policy: Inflation has been rising, but the Fed has been slow to raise interest rates. This could lead to a loss of purchasing power for consumers and investors.
7. BRICS+ influence and de-dollarization trends: The BRICS+ countries are gaining influence and there's a trend towards de-dollarization. This could undermine the U.S.'s economic and financial dominance.
8. Gold volatility and geopolitical hedging: Gold prices have been volatile, indicating uncertainty and geopolitical risk.

Given these indicators, there appears to be a significant disconnect between the economic narratives and the underlying fiscal, monetary, and geopolitical realities. The following JSON summarizes this analysis:

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

}

.

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

_____ **END OF REPORT** _____