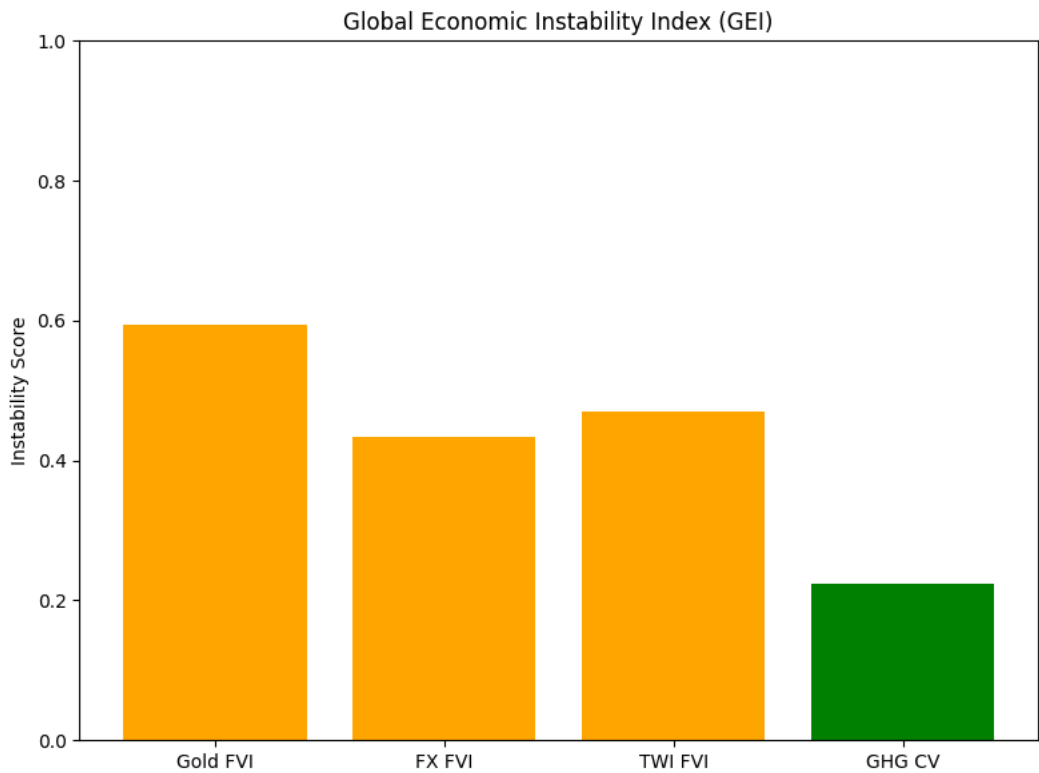


Fractal Volatility Index for AAPL : 0.568. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



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

Verv Stock Analysis Report: Apple Inc. AAPL FVI 0.568

Analysis Period: 2021-07-15 to 2026-07-15

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): 0.322

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

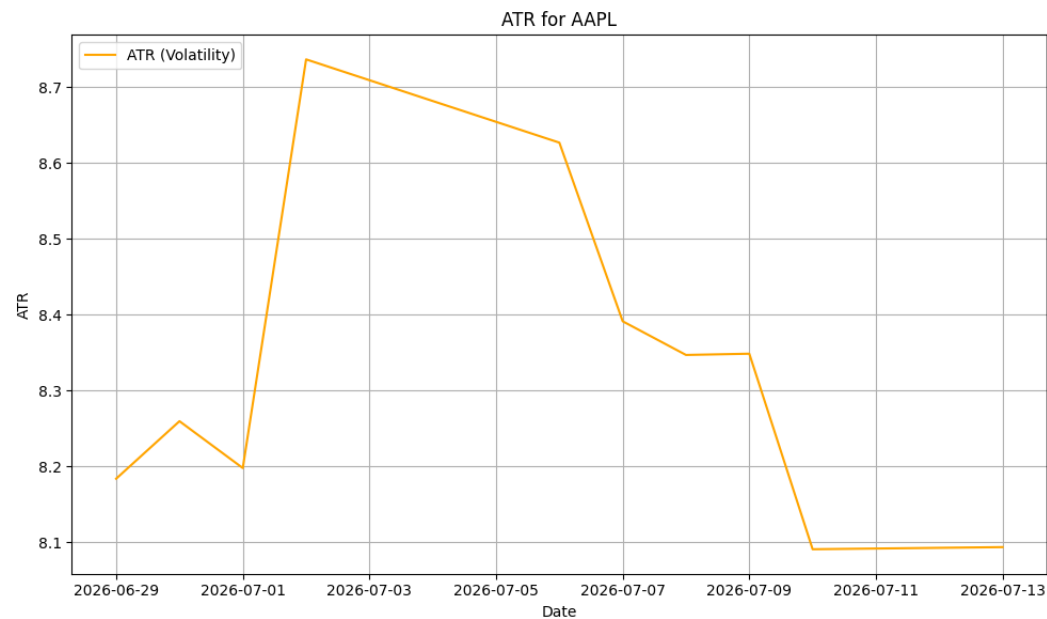
Fractal & Statistical Analysis

FVI Score: 0.568 (Fractal Volatility Index FVI)
DFA Result: 0.5025 (Detrended Fluctuation Analysis)
Lyapunov Exponent: 0.0166 (Measures chaos and predictability)
Hurst Exponent: 0.4891 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 317.31 is within the Bollinger Bands range (275.22 - 323.16).
Latest ATR: 8.0937

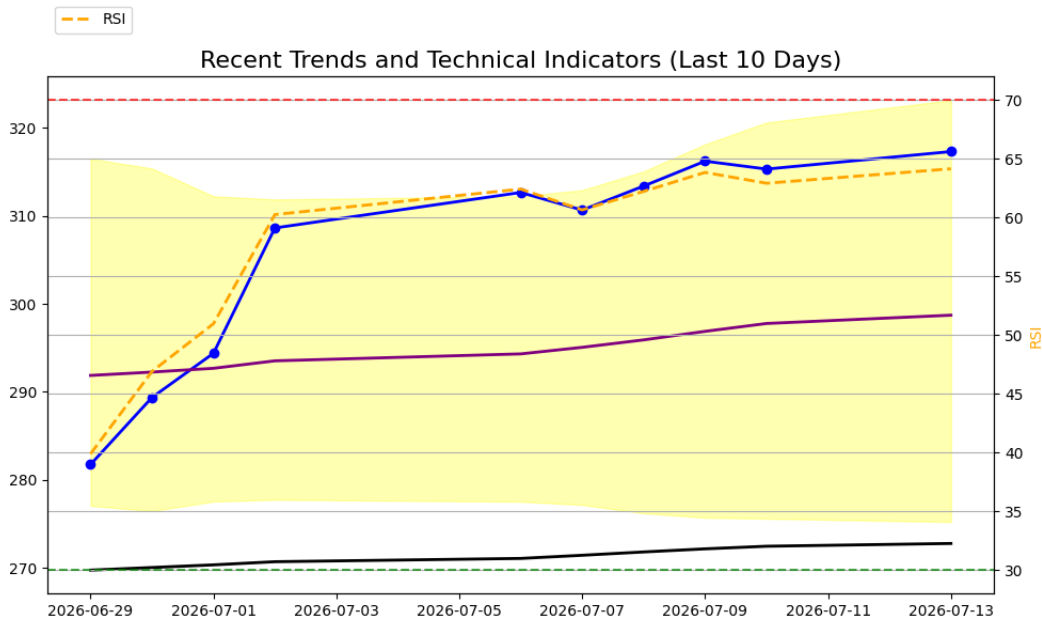
Average True Range (ATR)



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

- AAPL's Fractal Volatility Index (FVI) of 0.568 suggests moderate volatility, indicating a state of relative stability in the stock. However, the Lyapunov measure of 0.017 points to a slight instability in the system.
- The FVI does not indicate a strong acceleration or noise in the stock. However, the stock's volume change of -19.28% might suggest that the recent price movements are not strongly confirmed by volume, increasing the risk of a false breakout.
- The Bollinger Bands are currently within the range, suggesting no strong breakout signal.

2. Market Sentiment

- The significant institutional-driven behavior suggests a bullish sentiment among investors. However, the lack of a strong breakout signal and the negative volume change might indicate some caution among investors.

3. Geopolitical Risk Assessment

- The elevated market-wide FVI indicators, including Gold, FX, and TWI, suggest a heightened level of global stress. AAPL, being a global company, could be affected by these macroeconomic factors.
- The company's low GHG impact score of 0.048 indicates a relatively low exposure to sectoral emissions risk.

4. Sector and Supply Chain Exposure

- As a technology company, AAPL could have significant exposure to Asia-sourced components such as semiconductors. The ongoing trade tensions and potential disruptions in the supply chain could pose a risk to the company.
- However, the company's low GHG impact score suggests it might be less exposed to energy price shocks or environmental regulations compared to companies in more resource-intensive sectors.

--- STRATEGY RECOMMENDATION ---

- Based on the current market signals, the stock seems to be in a consolidation phase. The lack of a strong breakout signal and the negative volume change suggest caution.
- Given the current market conditions and the stock's FVI, a hedging strategy might be the most suitable approach.

--- FINAL TAKEAWAY ---

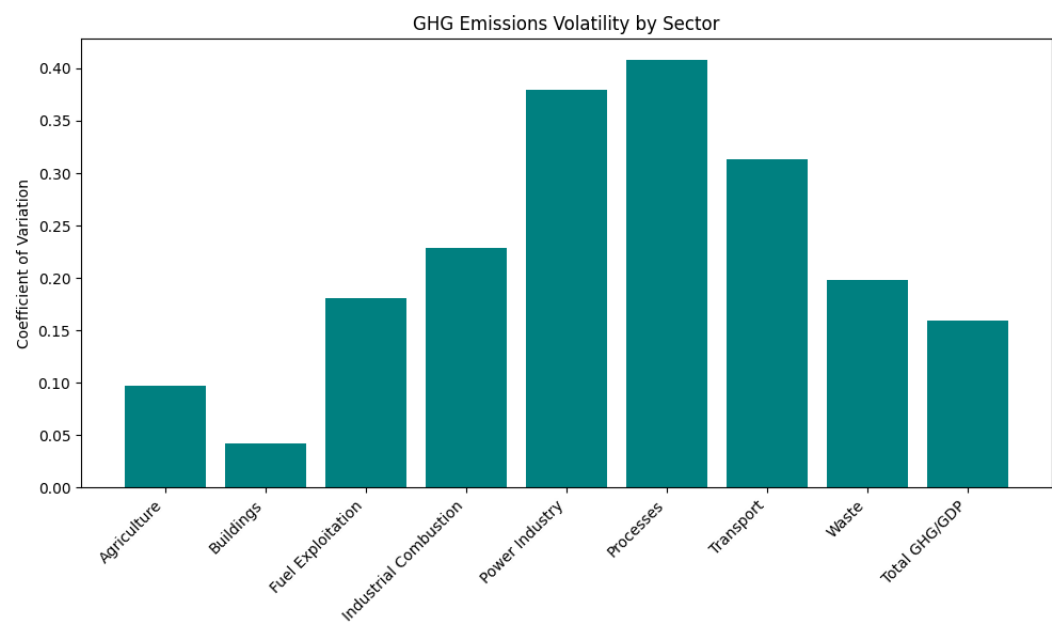
Given the moderate volatility, slight system instability, and the lack of a strong breakout signal, investors should proceed with caution. The heightened global stress indicators and potential supply chain disruptions due to ongoing trade tensions could pose risks. Therefore, a defensive positioning is recommended.

Market Capitalization: 4631217308000, Industry: CONSUMER ELECTRONICS, Latest Volume: 43257804, Description: Apple Inc., Sector: TECHNOLOGY, Price to Book: 43.49, Trailing PE: 38.17, Forward PE: 33.11, Enterprise to Ebitda: 29.05, Enterprise to Revenue: 10.29, Profit Margins: 0.272

The trading volume has changed by -19.28% 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: 1.10
Beta of 1.10 suggests high volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for theTechnology 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:

```
{  
  "Final_Score": 0.334,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.255,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "New export: Confidence! Made fresh daily from hot air."  
}
```

Explanation:

The NRDl is set at 0.7, indicating a significant disconnect between economic narratives and underlying fiscal, monetary, and geopolitical realities.

The rising U.S. debt and deficit levels, coupled with declining foreign demand for U.S. bonds, point to a potential vulnerability in the U.S. financial system. Despite this, the narrative of a strong U.S. economy persists.

Changes in Treasury bond yields and issuance, and central bank interventions such as rate cuts and quantitative easing, are typically signs of economic weakness. However, these measures are often presented as proactive strategies to stimulate growth, which can create a misleading narrative.

The use of tariffs and sanctions as economic tools has been justified as a means to protect domestic industries, but it can also be seen as a form of economic warfare that ultimately harms global trade.

Inflation rates are often manipulated to present a more favorable economic picture, which can create a disconnect between official interest rate policy and the actual state of the economy.

The influence of BRICS+ countries and de-dollarization trends could potentially undermine the dominance of the U.S. dollar, which is a significant geopolitical reality that is often downplayed in economic narratives.

Finally, gold volatility and geopolitical hedging are typically signs of uncertainty and instability, but these factors are often ignored or downplayed in economic narratives.

The Trumpery_Alert is set to true because there is evidence of manipulative or performative policymaking, such as the use of tariffs and sanctions as economic tools and manipulation of inflation rates.

The Satirical_Summary "If you believe this is market forces, we've got a bridge to sell you" is a humorous way of pointing out the disconnect between economic narratives and underlying realities.

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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 NRD I 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** _____