

Investment Thesis

NVIDIA (NVDA)

Completed on

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Prepared by Z

Important Notice

This valuation is an educational and analytical case study designed to demonstrate a full fundamental valuation workflow using publicly available financial data and transparent modeling assumptions. The model applies a normalized, steady-state framework to estimate intrinsic value and is not intended to represent a real-time trading recommendation. Key assumptions include normalized margin behavior, long-run reinvestment requirements, and steady-state growth dynamics. Forward projections are scenario-based and do not incorporate management guidance, confidential information, or proprietary datasets. As such, model outputs should be interpreted as **illustrative estimates rather than precise forecasts**. This analysis is provided solely for academic, demonstrative, and portfolio-building purposes. Users should conduct their own due diligence and consult professional advisors before making any investment decisions.

Executive summary

We initiate a **SHORT** recommendation on **NVIDIA Corporation (NASDAQ: NVDA)**. Our normalized, capital-constrained valuation framework estimates intrinsic value at **\$26–\$65 per share (Base: ~\$42)** versus a current market price of approximately **\$189**, implying **70–85% downside** and an expected **IRR of –30% to –45% annually** under a mean-reversion scenario. The market is pricing NVIDIA as if peak-cycle AI economics persist indefinitely, requiring a **permanent ~60% free-cash-flow margin**, a level that exceeds any historically sustainable mega-cap profitability. Peer-anchored valuation (AMD, MU) implies **\$71–\$166 per share**, further confirming that NVDA trades materially above both intrinsic and market-anchored benchmarks, creating an asymmetric downside opportunity as AI infrastructure spending and margins normalize.

Company Overview

NVIDIA Corporation (NASDAQ: NVDA) is the leading designer of discrete GPUs and accelerated computing platforms serving data centers, artificial intelligence, gaming, and professional visualization markets. The company operates within the high-performance semiconductor

industry, where AI training and inference have become the dominant structural growth drivers.

NVIDIA's primary revenue engine is its **Data Center segment**, which now represents the majority of consolidated revenue and is driven by hyperscale cloud providers and enterprise AI adoption. Secondary segments include Gaming GPUs, Professional Visualization, and Automotive platforms. Growth has been fueled by generative AI workloads, where NVIDIA's proprietary hardware architectures and CUDA software ecosystem have established near-monopoly market share in advanced AI accelerators.

NVIDIA's competitive moat is anchored in its **vertically integrated hardware–software ecosystem**, which creates high switching costs, developer lock-in, and premium pricing power versus competitors such as AMD and Intel. Financially, NVIDIA has delivered exceptional recent results, with trailing twelve-month revenue exceeding **\$187B** and EBITDA surpassing **\$110B**. However, these margins reflect peak-cycle AI infrastructure spending rather than normalized long-run semiconductor economics, which underpin the valuation framework in this analysis.

Quick Summary of Findings

NVIDIA's valuation is dominated by long-run assumptions, with **70–85% of market value driven by terminal value expectations rather than near-term cash flows**.

- Reverse-engineering the market price requires a **permanent free-cash-flow margin near 60%**
- The DCF implies intrinsic value of **\$26–\$65 (Base: ~\$42)** versus a market price of ~\$189
- This makes the stock **highly sensitive to small changes in margins, reinvestment needs, and long-term growth assumptions**.
- As a result, NVIDIA exhibits **asymmetric downside risk**, where modest normalization in economics can drive disproportionate valuation compression.

- The current share price therefore represents a leveraged bet on the indefinite persistence of peak-cycle AI profitability rather than a reflection of normalized intrinsic value.

Recommendations

NVIDIA appears priced for structurally exceptional long-run profitability that exceeds sustainable industry economics. Investors should exercise caution, as the current valuation leaves limited margin of safety and exposes the equity to significant downside risk if margins, growth, or reinvestment requirements normalize toward mature-cycle conditions.

- **Short**

Core Thesis

NVIDIA is currently priced as if peak-cycle AI infrastructure economics persist indefinitely. Under a capital-constrained fade-to-steady valuation framework, intrinsic value is estimated at \$26–\$65 per share (Base: ~\$42), materially below the current market price (~\$189).

Scenario analysis demonstrates that even under optimistic long-run assumptions (Bull Case: ~\$65), intrinsic value remains significantly below the market valuation, indicating that current pricing capitalizes extraordinarily optimistic steady-state economics.

Reverse-engineering the market price implies a permanent free-cash-flow margin near 60%, a level requiring unprecedented pricing power, minimal reinvestment needs, and structurally extraordinary profitability on a perpetual basis—conditions not historically sustained by mature mega-cap companies.

Relative valuation using peer medians (AMD, MU) implies a market-anchored valuation range of approximately '\$71–\$166', further confirming that NVIDIA trades above both intrinsic and peer-anchored benchmarks.

Sensitivity analysis confirms that valuation is most sensitive to long-run profitability and discounting assumptions, reinforcing that terminal economics dominate the valuation and that current market pricing embeds highly optimistic long-term outcomes.

The valuation gap does not reflect near-term execution risk, but rather the capitalization of elevated AI-cycle economics far into the future, creating asymmetric downside should growth normalize faster than currently implied.

For simplicity purposes we used some key assumptions which include:

- **Terminal Growth set at 3%**
- **WACC = 9.8%** (ValueInvestingIO)
- **Forecast Horizon = 5 years**
- **Steady-State FCFF Margin = 35%** (Based on historical median)
- **Terminal Value Constrain = 49% of EV** (Ensures valuation is not dominated by perpetuity assumptions)

Valuation Methodology

This analysis applies a capital-constrained, fade-to-steady-state discounted cash flow framework to estimate NVIDIA's intrinsic value under normalized long-run economics. The methodology is designed to avoid capitalizing peak-cycle profitability into perpetuity and instead reflects mature semiconductor industry behavior.

1. Data Collection & Normalization

- Public financial statements (income statement, cash flow statement, and balance sheet) were retrieved using YahooQuery. Reported figures were cleaned by fiscal year and normalized to remove missing values and non-operating distortions. Shares outstanding were sourced from companiesmarketcap.com to ensure accurate per-share valuation.

2. Historical Operating & Cash Flow Reconstruction

- Key operating drivers were reconstructed, including Revenue, EBIT, effective tax rate, depreciation and amortization, capital expenditures, and changes in net working capital. These inputs were used to calculate historical **Free Cash Flow to the Firm (FCFF)** and assess margin behavior across cycles.

3. Forward Forecast & Fade Structure

- A five-year forecast horizon was constructed based on historical growth dynamics. Peak-cycle profitability was explicitly faded toward mature steady-state margins and reinvestment requirements to prevent perpetuating unusually elevated AI-cycle economics.

4. Discounting & Terminal Value

- Forecast FCFF was discounted using a **9.8% weighted average cost of capital (WACC)**. Terminal value was calculated using the Gordon Growth formula with a **3.0% terminal growth rate**, representing long-run nominal GDP growth.

5. Equity Valuation

- Enterprise value was computed as the sum of the present value of forecast FCFF and discounted terminal value. Net debt was subtracted to derive equity value, which was divided by shares outstanding to estimate intrinsic price per share.

6. Validation & Sensitivity Analysis

- Sensitivity surfaces were constructed across WACC, terminal growth, and margin assumptions to evaluate valuation robustness. Terminal value contribution was monitored to ensure economic credibility.

7. Scenario & Market Triangulation

- Bear, Base, and Bull valuation scenarios were constructed. Results were triangulated against peer multiples (AMD, MU) and reconciled using a football-field framework to compare intrinsic valuation, relative valuation, and current market pricing.

8. Implied Expectations

- Finally, market-implied assumptions were reverse-engineered to quantify the profitability and growth required to justify the prevailing market price

For the full python code refer to my [Github](#)

Cell-by-cell walkthrough and explanations

1. Imports & Setup

- Loads all required libraries (NumPy, Pandas, Matplotlib, YahooQuery, etc.) and defines helper functions used throughout the model (e.g., `safe_col`, data cleaners, and formatting helpers).
- **Purpose:** Initializes the valuation environment.

2. Data Pull – Financial Statements

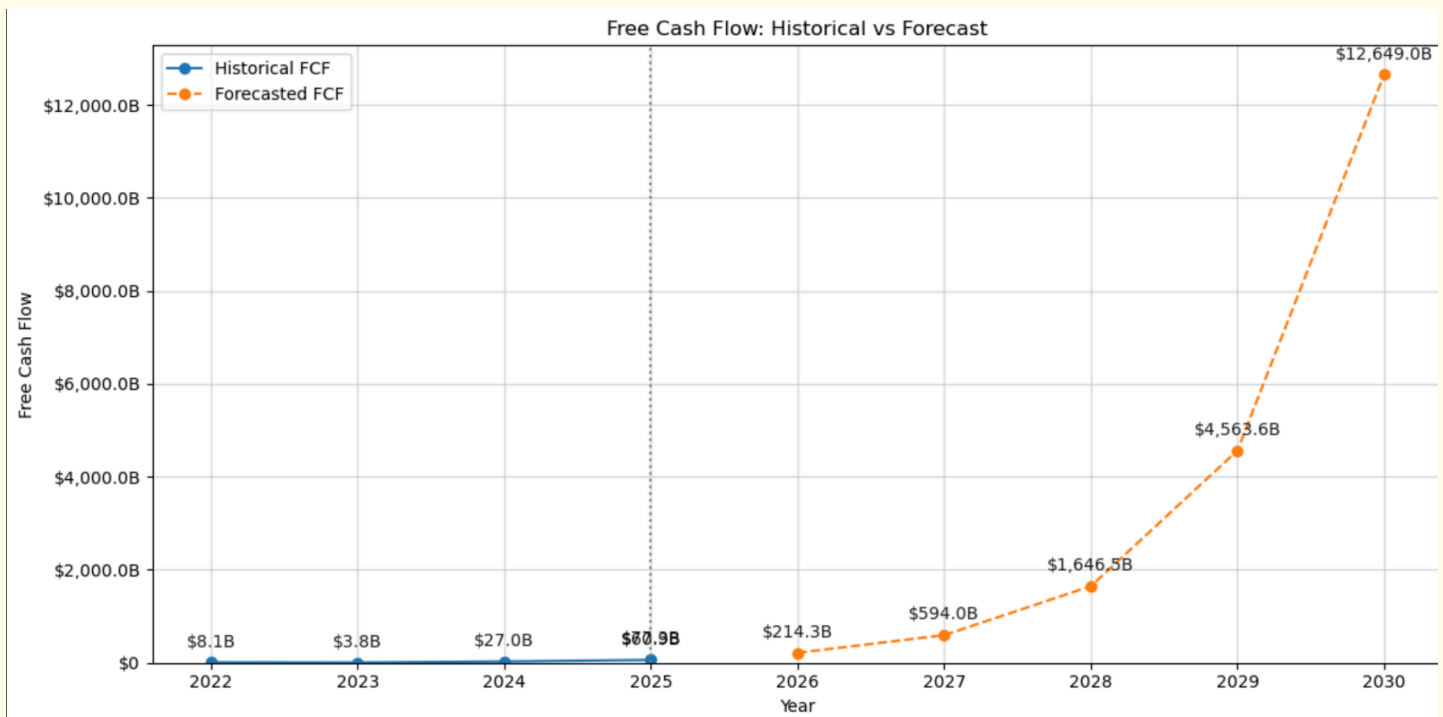
- Pulls NVDA's income statement, cash flow statement, and balance sheet using YahooQuery and converts them into clean pandas DataFrames.
- **Purpose:** Provides the raw accounting data used to build FCFF.

3. Balance Sheet Normalization

- Extracts debt, cash, and computes **net debt = 1,681,000,000**
- **Purpose:** Allows conversion of enterprise value to equity value later.

4. Historical FCFF Construction

- Builds Revenue, EBIT, tax rate, D&A, Capex, ΔNWC and calculates historical **Free Cash Flow to the Firm**.
- Cleaned cash flow statement to retrieve historic cash flows for the last 5 years
- Calculated average FCFF growth rate using: $g_{FCF} = \frac{1}{T-1} \sum_{t=2}^T \frac{FCF_t - FCF_{t-1}}{FCF_{t-1}} = 1.77$
- Calculated future 5 years of FCFF using: $FCF_t = FCF_0 \times (1 + g_{FCF})^t$



5. DCF

- Pulled shares outstanding from companiesmarketcap.com @ 23,327,000,000 shares

- Discounted each forecasted free cash flows and discount each year at a **9.8% cost of capital** to get their present values.
- Calculated Terminal Value $= \frac{FCF_n(1+g)}{WACC-g}$
- Discounted Terminal Value $PV(TV) = \frac{TV}{(1+WACC)^N}$
- Calculated Enterprise Value $EV = \sum_{t=1}^N PV(FCF_t) + PV(TV)$
- Calculated Equity Value = EV - Net Debt
- Calculated Intrinsic Stock Price $= \frac{Equity}{Shares} = \$5,469.18$ per share
- This stock price is very high and unrealistic so this is where we introduced our fade to steady state valuation and our bull/bear/base cases

6. Forecast Engine

- Projects revenue and operating cash flows forward and applies fade-to-steady-state normalization.
- Normalized the company's financials to estimate sustainable, mid-cycle free cash flow by removing non-recurring, non-operating, and temporary earnings distortions before rebuilding the DCF valuation.
- **Purpose:** Generates realistic future cash flows.

	Revenue	EBIT	TaxRate	D&A	Capex	dNWC	NWC	NOPAT	FCFF
asOfDate									
2022	2.691400e+10	1.017700e+10	0.019012	1.174000e+09	9.760000e+08	3.363000e+09	NaN	9.983513e+09	6.818513e+09
2023	2.697400e+10	4.443000e+09	0.000000	1.543000e+09	1.833000e+09	2.207000e+09	NaN	4.443000e+09	1.946000e+09
2024	6.092200e+10	3.407500e+10	0.119995	1.508000e+09	1.069000e+09	3.722000e+09	NaN	2.998616e+10	2.670316e+10
2025	1.304970e+11	8.427300e+10	0.132649	1.864000e+09	3.236000e+09	9.383000e+09	NaN	7.309424e+10	6.233924e+10

7. Historical operating and cash-flow reconstruction

- Model diagnostics: steady-state realism
- The DCF's terminal value is highly sensitive to long-run assumptions (steady EBIT margin, reinvestment intensity, and terminal growth).
- Using medians from recent years can implicitly anchor the model to peak-cycle economics.
- To ensure economic realism, we compare:
 - historical distributions of margins and reinvestment ratios, and
 - the implied steady-state cash conversion (FCFF margin).
- If the implied steady-state FCFF margin is unusually high for a mature mega-cap, the terminal value will be mechanically inflated.

- We therefore apply a fade-to-steady-state assumption set.

Table 1 — Normalized Historical Operating & Cash-Flow Margins

Year	EBIT Margin	D&A / Revenue	Capex / Revenue	Δ NWC / Revenue	FCFF Margin
2022	37.8%	4.4%	3.6%	12.5%	25.3%
2023	16.5%	5.7%	6.8%	8.2%	7.2%
2024	55.9%	2.5%	1.8%	6.1%	43.8%
2025	64.6%	1.4%	2.5%	7.2%	47.8%
Median	46.9%	3.4%	3.0%	7.7%	34.6%

Table 2 — Steady-State Assumption Framework

Variable	Historical Median	Used in Model	Rationale
EBIT Margin	46.9%	30–33%	Mature mega-cap margin normalization

Table 2 — Steady-State Assumption Framework

Capex / Revenue	3.0%	4.5–5.5%	Sustaining data-center reinvestment
Δ NWC / Revenue	7.7%	5–6%	Slowing growth capital needs
FCFF Margin	34.6%	~18–22%	Realistic long-run cash conversion
Terminal Growth (g)	—	2.5–3.0 %	Long-run nominal GDP ceiling

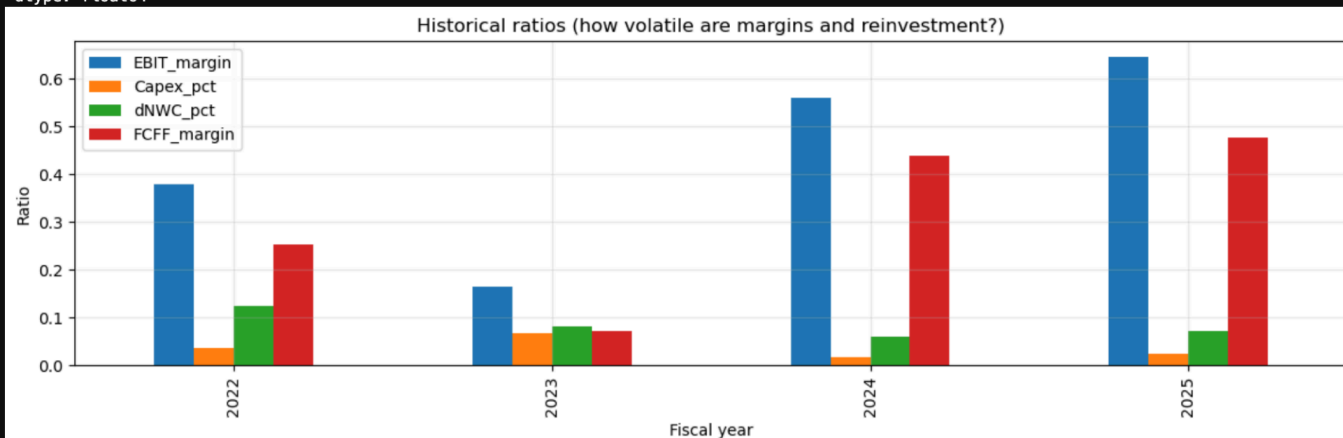
8. Diagnostics

- Normalized every reinvestment and margin component into revenue-based ratios
- Then computed the median of each across history
 - EBIT margins \approx **47%**
 - FCFF margins \approx **35%**
 - Capex & working capital unusually low

Purpose:

- Compared historical medians vs realistic long-run assumptions
- Identified reinvestment understatement
- Proved why a fade to steady state was required
- Justified lowering long-run FCFF margins
- Prevented capitalizing bubble margins into perpetuity

	EBIT_margin	DA_pct	Capex_pct	dNWC_pct	FCFF_margin
asOfDate					
2022	0.378	0.044	0.036	0.125	0.253
2023	0.165	0.057	0.068	0.082	0.072
2024	0.559	0.025	0.018	0.061	0.438
2025	0.646	0.014	0.025	0.072	0.478
EBIT_margin	0.469				
DA_pct	0.034				
Capex_pct	0.031				
dNWC_pct	0.077				
FCFF_margin	0.346				
dtype:	float64				



[33]:	Historical median	Historical min	Historical max
EBIT_margin	0.469	0.165	0.646
Capex_pct	0.031	0.018	0.068
dNWC_pct	0.077	0.061	0.125
FCFF_margin	0.346	0.072	0.478

9. Fade to Steady State DCF Engine

The initial DCF produced an elevated intrinsic value because its steady-state assumptions were anchored to recent peak-cycle economics. The historical median FCFF margin of approximately 35% mechanically implies a very large terminal value under the Gordon growth framework, where $TV/Revenue = FCFF_margin \times (1+g)/(WACC - g)$. With WACC = 9.8% and terminal growth of 3.0%, this margin implies a terminal multiple of roughly 5.3× revenue, an unusually high perpetuity valuation for a mature mega-cap, and causes the terminal value to dominate enterprise value. To avoid capitalizing peak-cycle cash conversion into perpetuity, the model applies a fade-to-steady-state assumption set with lower long-run margins and higher sustaining reinvestment so that terminal economics reflect mature, economically realistic conditions rather than peak-cycle outcomes.

- At steady state we assumed the following
 - EBIT Margin = 32%
 - DA_pct = steady["DA_pct"],
 - Capex_pct = 5%
 - dNWC_pct = 5.5%
 - Terminal growth = 3%

- Fade Years = 9
- Revenue growth fades from **20% → 3%** over the same horizon.

[36]:

	Year	EBIT_margin	Capex_pct	dNWC_pct	Revenue	EBIT	NOPAT	D&A	Capex	dNWC	FCFF
0	1	0.645785	0.024798	0.071902	1.565964e+11	1.011276e+11	8.771308e+10	5.353513e+09	3.883200e+09	1.125960e+10	7.792380e+10
1	2	0.605062	0.027948	0.069789	1.849577e+11	1.119109e+11	9.706596e+10	6.323094e+09	5.169165e+09	1.290807e+10	8.531182e+10
2	3	0.564339	0.031098	0.067677	2.149620e+11	1.213114e+11	1.052195e+11	7.348840e+09	6.684916e+09	1.454788e+10	9.133554e+10
3	4	0.523616	0.034248	0.065564	2.457732e+11	1.286907e+11	1.116199e+11	8.402173e+09	8.417350e+09	1.611382e+10	9.549095e+10
4	5	0.482892	0.037399	0.063451	2.763583e+11	1.334514e+11	1.157491e+11	9.447777e+09	1.033546e+10	1.753522e+10	9.732622e+10
5	6	0.442169	0.040549	0.061338	3.055295e+11	1.350958e+11	1.171754e+11	1.044504e+10	1.238894e+10	1.874065e+10	9.649086e+10
6	7	0.401446	0.043699	0.059226	3.320087e+11	1.332837e+11	1.156037e+11	1.135028e+10	1.450857e+10	1.966339e+10	9.278197e+10
7	8	0.360723	0.046850	0.057113	3.545115e+11	1.278805e+11	1.109172e+11	1.211958e+10	1.660875e+10	2.024713e+10	8.618092e+10
8	9	0.320000	0.050000	0.055000	3.718432e+11	1.189898e+11	1.032059e+11	1.271209e+10	1.859216e+10	2.045138e+10	7.687445e+10

- This table models NVIDIA's transition over the nine-year fade period, operating margins compress, capital intensity rises, and working-capital needs normalize. Although revenue continues to grow, higher reinvestment requirements compress free cash flow growth, preventing the terminal value from being driven by peak-cycle profitability assumptions.

10. Base/Bull/Bear Case

- Using the new DCF we calculated:
 - Base Case Price = \$41.72
 - 49.3% of EV coming from terminal value
 - That means **just under half of NVIDIA's total valuation is coming from cash flows beyond the explicit forecast period**
 - Bear Case Price = \$26.49
 - Bull Case Price = \$64.83
- The three scenario valuations represent economically distinct long-run outcomes for NVIDIA.
- The Bear case: (\$26) reflects a rapid normalization of AI capital spending and materially lower long-run margins.
- The Base case: (\$42) assumes NVIDIA remains a structurally strong semiconductor platform but transitions into mature, capital-constrained economics with normalized margins, reinvestment requirements, and GDP-like terminal growth.
- The Bull case (\$65) reflects sustained platform strength with structurally higher margins and lighter reinvestment needs, while still imposing long-run economic constraints.
- All three intrinsic values are materially below NVIDIA's current market price (~\$188) because the model explicitly fades peak-cycle economics into mature steady-state conditions and restricts growth through capital-constrained reinvestment. In contrast, the current market price implicitly assumes that NVIDIA can sustain

unusually high margins, capital-light growth, and elevated growth rates far into the future. The large valuation gap therefore does not indicate model error; rather, it quantifies the degree to which the current market price capitalizes continued AI-cycle dominance and elevated profitability well beyond typical mature-company economics.

- The following section reverse-engineers the economic assumptions embedded in the current market price to determine what must be true for a \$188 valuation to be internally consistent.

11. Reverse Engineering FCFF

- Computed NVIDIA's current market enterprise value (EV) using today's share price (\$188) and net debt, establishing the valuation level the market is implying
- Defined a function that solves for the long-run FCFF margin required to justify that EV
- Binary search algorithm to iteratively test different steady-state FCFF margins until the DCF's EV exactly matches the market EV
- Under the capital-constrained, fade-to-steady valuation framework, reverse-engineering the current market price of approximately \$188 implies a required steady-state **FCFF margin of nearly 60%**. Such a margin would imply forever:
 - EBIT margins @ 75-85%
 - Near zero capital intensity
 - No competitive pressure
 - Minimal Reinvestment needed
 - Absolute pricing power
- This implied assumption materially exceeds the long-run economics observed for any mature mega-cap company historically, indicating that the current market valuation capitalizes an exceptionally optimistic and historically unprecedented long-term economic outcome for NVIDIA.

12. Sensitivity Surfaces

To evaluate the robustness of the valuation, sensitivity surfaces are constructed across key terminal assumptions. The first surface varies the weighted average cost of capital (WACC) and terminal growth rate, while the second varies WACC and the steady-state EBIT margin. These surfaces illustrate that intrinsic value declines smoothly as the discount rate increases and rises with higher terminal growth or margins, confirming that the model behaves consistently with financial theory. More importantly, they show that the valuation is most sensitive to long-run profitability and discounting assumptions, reflecting the central role of terminal economics in long-horizon equity valuation. This analysis demonstrates that the intrinsic value is not driven by a single fragile assumption but varies

continuously across a plausible range of economic outcomes, reinforcing the model’s internal consistency and credibility.

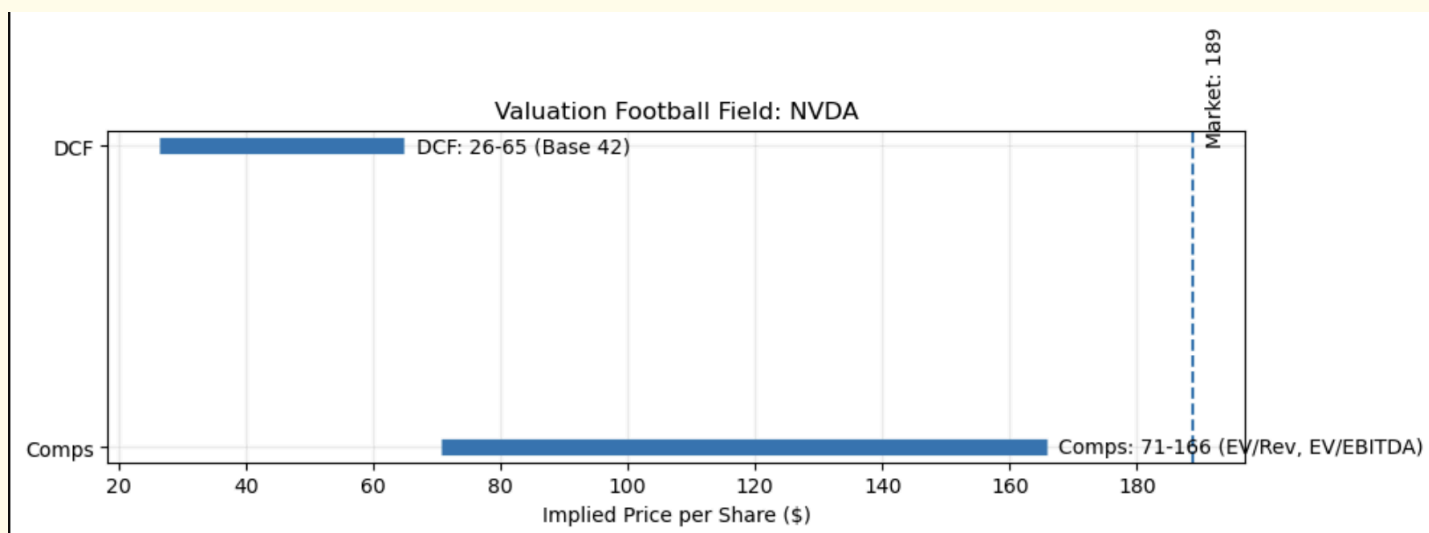
[45]:	WACC=8.5%	WACC=9.0%	WACC=9.5%	WACC=10.0%	WACC=10.5%	WACC=11.0%	WACC=11.5%	WACC=12.0%
g=2.0%	46.0	43.0	40.3	38.0	35.9	34.1	32.4	31.0
g=2.5%	48.1	44.7	41.8	39.2	37.0	35.0	33.2	31.6
g=3.0%	50.6	46.8	43.5	40.6	38.2	36.0	34.1	32.4
g=3.5%	53.6	49.2	45.4	42.3	39.5	37.1	35.1	33.2
g=4.0%	57.3	52.0	47.7	44.1	41.1	38.5	36.2	34.1

[46]:	WACC=8.5%	WACC=9.0%	WACC=9.5%	WACC=10.0%	WACC=10.5%	WACC=11.0%	WACC=11.5%	WACC=12.0%
m=28%	44.7	41.4	38.7	36.3	34.2	32.3	30.7	29.2
m=31%	49.2	45.4	42.3	39.5	37.2	35.1	33.2	31.6
m=34%	53.6	49.4	45.9	42.8	40.2	37.8	35.8	33.9
m=37%	58.1	53.4	49.5	46.1	43.2	40.6	38.3	36.3
m=40%	62.5	57.4	53.1	49.4	46.2	43.3	40.9	38.6

13. Peer Multiple Analysis

While discounted cash flow valuation estimates intrinsic value based on long-run cash-generating capacity, market participants frequently price equities using relative valuation multiples. To triangulate the DCF results against prevailing market sentiment, a peer multiple analysis is conducted using a group of comparable semiconductor and AI-infrastructure firms (AMD, MU). By comparing enterprise value relative to revenue, EBITDA, and earnings across the peer set, this analysis provides a market-based reference range for NVIDIA’s valuation and serves as a reasonableness check on the intrinsic values derived from the DCF framework. The comparison also highlights how current market pricing reflects differing expectations regarding profitability, growth persistence, and competitive positioning within the AI semiconductor ecosystem.

These market-anchored ranges are reconciled with the intrinsic DCF outputs using a football-field framework to present valuation outcomes across methodologies. The football field highlights a DCF intrinsic range of approximately \$26–\$65 (Base: ~\$42) versus a comparable-company range of ~\$71–\$166, while the current market price (~\$189) sits materially above both. The visualization demonstrates that NVIDIA’s market valuation capitalizes assumptions that exceed both economically normalized intrinsic value and peer-anchored market benchmarks, reinforcing that current pricing embeds unusually optimistic long-run profitability and growth expectations.



Findings

This valuation analysis indicates that NVIDIA’s current market price embeds assumptions that materially exceed economically sustainable industry conditions. A normalized fade-to-steady-state DCF yields intrinsic values between approximately **\$26–\$65 per share**, while peer-based valuation multiples imply an equity value range of **\$71–\$166 per share**, both of which remain well below the prevailing market price of ~\$189. Reverse DCF analysis further reveals that the market is implicitly assuming a **permanent free-cash-flow margin approaching 60%**, a level unprecedented for large-scale semiconductor manufacturers and inconsistent with long-run capital intensity and competitive dynamics. Together, these results indicate that NVIDIA is currently priced for structurally exceptional outcomes rather than realistic mature-cycle economics, leaving the equity valuation highly sensitive to any normalization in profitability, reinvestment intensity, or growth.

- Current FCF margin is 60%
- Current market price is trading 3x what our price is in our BULL case
- Comparable-company analysis (AMD, MU) implies an equity valuation range of roughly **\$71–\$166 per share**

Implications

- Elevated downside risk: **Because NVIDIA's valuation is driven primarily by extreme long-run assumptions, even modest normalization in margins, growth, or reinvestment intensity could trigger disproportionately large valuation compression.**
- **Market expectations are fragile:** The current share price reflects structurally exceptional and historically unprecedented profitability assumptions, making the stock **highly sensitive to competitive entry, customer vertical integration, or slowing AI infrastructure spending.**
- **Asymmetric risk–reward profile:** With valuation anchored to optimistic perpetuity economics rather than normalized cash-flow fundamentals, the equity exhibits **limited upside but substantial potential downside** under realistic mature-cycle conditions.

Conclusion and recommendations

This analysis applies a normalized, capital-constrained discounted cash flow framework to evaluate NVIDIA under mature-cycle economics rather than peak-cycle AI profitability. Across intrinsic valuation, implied-expectation modeling, and peer-normalized multiples, the results consistently indicate that NVIDIA's current market price reflects structurally exceptional and historically unprecedented profitability assumptions. A fade-to-steady-state DCF yields intrinsic values materially below the prevailing market price, while reverse DCF analysis demonstrates that the market is implicitly capitalizing permanent free-cash-flow margins near 60%. Peer-based valuation further corroborates that NVIDIA trades at a substantial premium to normalized industry benchmarks. Collectively, these findings suggest that NVIDIA's valuation is highly sensitive to any normalization in margins, reinvestment intensity, or growth, creating asymmetric downside risk under realistic long-run conditions.

Limitations of this Analysis

- **Simplified capital structure and reinvestment modeling:** Reinvestment intensity, working capital behavior, and capital structure are modeled at an aggregate level and may not capture future strategic shifts, acquisitions, or changes in capital allocation policy.
- **Limited peer set:** Relative valuation relies on a narrow peer group (AMD and Micron), which may not fully reflect NVIDIA's unique business mix, software ecosystem advantages, or exposure to differentiated end markets.
- **Cost of Capital and External Inputs:** This analysis adopts an externally sourced weighted average cost of capital (WACC) assumption rather than constructing a full bottom-up cost of capital model. As such, the discount rate reflects generalized market estimates for large-cap semiconductor firms and may not fully capture NVIDIA's evolving business risk, capital structure changes, or shifts in systematic risk associated with the AI infrastructure cycle. Similarly, long-run growth and reinvestment assumptions are based on macroeconomic and industry-level benchmarks rather than proprietary demand forecasts. These external inputs introduce estimation uncertainty and may result in valuation outcomes that differ

from those implied by a fully customized firm-specific capital cost framework.