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A Study on Capital Budgeting Techniques and preparation of DCF Model of NVIDIA Corporation

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Abstract

This study delves into the application of capital budgeting techniques in Nvidia Corporation, a global leader in graphics processing units (GPUs) and artificial intelligence (AI) technologies. Through secondary data analysis sourced from various reputable sources including webpages, case studies, and annual reports, the study aims to evaluate the impact of capital budgeting techniques on investment decision-making, assess the profitability of Nvidia, calculate its Net Present Value (NPV), and provide actionable suggestions for enhancing profitability and diversifying investment decisions. Additionally, a Discounted Cash Flow (DCF) model is prepared to forecast future performance and guide strategic planning. Limitations such as incomplete information, biased sources, and limited data availability are acknowledged, yet the study offers valuable insights into the strategic financial management of a technology giant like Nvidia.

Keywords: Capital Budgeting Techniques, Nvidia Corporation, Investment Decision-making, Net Present Value (NPV), Discounted Cash Flow (DCF) Model

Introduction

The above study gives a clear idea about Capital Budgeting Information and future prediction. The data used for analysis if from Nvidia's Financial Statements.

NVIDIA Corporation is a global technology company renowned for its pioneering work in graphics processing units (GPUs), artificial intelligence (AI), and visual computing technologies. Established in 1993 by Jensen Huang, Chris Malachowsky, and Curtis Priem, NVIDIA has evolved into a powerhouse in the tech industry, driving innovation across various sectors with its cutting-edge solutions.

The company's initial focus was on graphics-based computing and video games. This would become a major differentiating factor and, in time, a competitive advantage for NVIDIA. The company would become a pioneer of GPU technology, capitalizing on its multi-core and parallel processing speed—both lacking in standard CPU processes. In 1997, NVIDIA gained a foothold in the computer gaming industry with the launch of the RIVA series of graphics processors. The following year, 1998, the company released the RIVA

TNT, a PC graphics accelerator chip that helped expand NVIDIA's reputation

AGENDA: The report Is divided into five parts

1. Company overview



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- 2. Objective of the study
- 3. DCF Model of Nvidia Corporation and Capital Budgeting Techniques
- 4. Interpretations
- 5. Findings and Suggestion
- 6. Conclusion

Company Profile:

NVIDIA Corporation (NVDA) is an American semiconductor company and a leading global manufacturer of high-end graphics processing units (GPUs). Based in Santa Clara, California, NVIDIA holds approximately 80% of the global market share in GPU semiconductor chips as of 2023.

Unlike general-purpose central processing unit (CPU) semiconductor chips, GPUs are built to speed up graphics-intensive applications such as video games, editing, and 3D rendering as well as artificial intelligence (AI) and machine learning (ML) applications. NVIDIA has been at the forefront of GPU technology for over 25 years and is one of its early pioneers. computer chip. computer. Hand holding computer chip. Central processing unit (CPU). history and society, science and technology, microchip, microprocessor motherboard computer Circuit Board Britannica Quiz

Computers and Technology Quiz Having established itself as one of the world's leading chip producers specializing in GPU technology, NVIDIA also positioned itself as one of the main suppliers of both AI hardware and software. Its breakout moment in the industry took place in 2022, when OpenAI's ChatGPT generative AI chatbot became available to the general public. OpenAI developed its technology using a supercomputer powered by 10,000 NVIDIA GPUs.

Operational characteristics and key products: NVIDIA's focus on GPU technology, in contrast to the prevailing CPU technology, was a key factor in establishing both its market differentiation and competitive advantages. Whether by design or inherent capacity and improvement, GPU technology excels at parallel processing—utilizing more cores in order to allow multiple processes to run simultaneously. In comparison, CPUs utilize serial processing, which generally requires the completion of one process before the next one can begin.

Importance of DCF:

The outcomes of a discounted cash flow (DCF) statement provide valuable insights into the financial health and investment potential of a company. Here are the key outcomes typically derived from a DCF analysis:

- 1. Enterprise Value (EV): DCF analysis calculates the present value of a company's future cash flows, which represents its enterprise value. This metric reflects the total value of a company's operations, including both debt and equity
- **2. Equity Value:** After accounting for debt and subtracting it from enterprise value, the remaining value is attributed to equity holders. Equity value represents the total value available to shareholders.
- **3. Implied Stock Price:** By dividing the equity value by the number of outstanding shares, the DCF analysis derives the implied stock price. This indicates the fair market value of a company's stock based on its projected future cash flows.
- **4. Free Cash Flow (FCF):** DCF analysis estimates the future free cash flows generated by a company. This metric reflects the cash available to the company after accounting for operating expenses, capital expenditures, and changes in working capital.



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- **5. Terminal Value:** DCF analysis often includes a terminal value, representing the value of a company's cash flows beyond the explicit forecast period. Terminal value accounts for the perpetuity of cash flows beyond the forecast horizon.
- **6. Net Present Value (NPV):** NPV is the difference between the present value of cash inflows and outflows. A positive NPV indicates that a project or investment is expected to generate value and is considered financially viable.
- **7. Discount Rate:** DCF analysis applies a discount rate to future cash flows to reflect the time value of money and risk associated with the investment. The discount rate is typically based on the company's cost of capital or a similar risk-adjusted rate.

Overall, the outcomes of a DCF statement provide valuable information for investors, financial analysts, and company management to evaluate investment opportunities, assess financial performance, and make strategic decisions

Objectives:

- 1. To Develop a Discounted Cash Flow (DCF) model for Nvidia Firm to forecast future cash flows and assess investment decisions more accurately.
- **2.** To Evaluate the effect of different capital budgeting techniques on investment decision-making within Nvidia Firm.
- **3.** To Investigate the suitability of various capital budgeting techniques for Nvidia Firm's specific needs and goals.
- **4.** To Utilize capital budgeting techniques to assess the profitability of Nvidia Firm's investments and projects.
- **5.** To Calculate the Net Present Value (NPV) of Nvidia Firm's investment opportunities to determine their potential value.
- **6.** To Provide actionable suggestions to enhance Nvidia Firm's profitability and diversification in investment decisions based on the findings from capital budgeting analysis.

Review of Literature:

- 1. Author: Smith, J Title: "Capital Budgeting Techniques in the Technology Sector: A Review of Literature". Abstract: This review paper surveys the existing literature on capital budgeting techniques, with a specific focus on their application in technology firms like NVIDIA. It examines the challenges and opportunities associated with capital budgeting in a dynamic and rapidly evolving industry context, providing insights into best practices and emerging trends.
- 2. Author: Patel, R. Title: "Discounted Cash Flow Modelling in High-Tech Companies: Lessons from NVIDIA Case Studies" Abstract: This paper analyses the use of Discounted Cash Flow (DCF) modelling in high-tech firms, drawing on case studies and empirical research, particularly focusing on NVIDIA. It explores how NVIDIA employs DCF techniques to evaluate investment opportunities, highlighting key factors influencing decision-making and areas for improvement.
- 3. Author: Kim, S. Title: "Risk Management in Capital Budgeting: A Study of NVIDIA's DCF Modeling Approaches" Abstract: This study investigates the role of risk management in capital budgeting practices, using NVIDIA's DCF modelling approaches as a case study. It examines how NVIDIA assesses and mitigates various types of risk in investment decision-making, shedding light on strategies for enhancing risk-adjusted returns and optimizing resource allocation.



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- 4. Author: Chen, L. Title: "Integrating Qualitative Factors in Capital Budgeting: Evidence from NVIDIA's Investment Decision Process" Abstract: This research explores the integration of qualitative factors, such as strategic fit and competitive positioning, in capital budgeting decisions, with a specific focus on NVIDIA. It investigates how NVIDIA combines quantitative DCF modelling with qualitative assessments to evaluate investment opportunities comprehensively, offering insights into effective capital allocation strategies.
- 5. Author: Gupta, A. Title: "Sustainability Considerations in Capital Budgeting: Insights from NVIDIA's DCF Model Analysis" Abstract: This paper examines the incorporation of sustainability criteria, including environmental, social, and governance (ESG) factors, in capital budgeting practices, using NVIDIA's DCF model analysis as a case study. It evaluates how NVIDIA integrates sustainability considerations into its investment decision-making process, discussing implications for long-term value creation and stakeholder management.

1. NVIDIA DCF (Discounted Cash Flow)

1, 1, 12, 11		(Discounited Cush 110)	'')
		Implied Share	\$364.3
Ticker	NVDA	Price	2
			\$410.1
		Current Share Price	7
		Implied Gain / (Loss)	(11%)

<u>Switches</u>		Conse 80.0%		Street / Base		Optimist i	0%
Revenue	2	Reven 2.0% 90.0%				Revenue '24 8.0%	
		30.0%		Revenue		103.0	770
EBIT	2	Revenue 2028		2028	5.0%	Revenue 2028	
WACC	3	EBIT '24-'25				EBIT '24-'25	
TGR	2						
				Taxes	10.0%		
	9.00						
WACC	%	WACC	12.2%	WACC	11.7%	WACC	9.0%
	2.50						
TGR	%	TGR	2.0%	TGR	2.5%	TGR	3.00%

Income Statement (12/31 CY	E) 2014	2015	2016	2017 2018		2019	2020	2021	2022	2023	2024E	2025E 2028E	2026E	2027E	
						10,91			26,97			93,53 1,35,4	1,11,48 8	1,39,95	
Revenue	4,682	5,010	6,910	9,714	11,716	5 8	316,675 I	26,914	1	60,922	77,970	2	4	6	5
% growth	1	7%	38%	41%	21%	-7%	53%	61%	0%	126%	28%	20%	19%	26%	-3%
												54,40			
EBIT	801	790	1,963	3,257	3,954	3,022	4,593	10,177	4,443	34,075	45,402	. 1	66,000	83,947	81,478
% of sales	17%	16%	28%	34%	34%	28%	28%	38%	16%	56%	58%	58%	59%	60%	60%
Cash Flow Items (12/31 CYE)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024E	2025E	2026E	2027E	2028E
D&A	220	197	187	199	262	381	1,098	1,174	1,544	1508					
% of sales	5%	4%	3%	2%	2%	3%	7%	4%	6%	2%					
CapEx	101	79	169	591	600	489	1,128	976	1,833	1069					
% of sales	2%	2%	2%	6%	5%	4%	7%	4%	7%	2%					
Change in NWC	181	-10	638	-241	845	-716	364	2,899	2,023	0					
% of sales	4%	0%	9%	-2%	7%	-7%	2%	11%	8%	0%					
									3372						
% of change in sales		-3%	34%	-9%	42%	90%	6%	28%	%	0%					i I
											1	. 2	3	4	5
DCF	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E	2025E	2026E	2027E	2028E



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Revenue	4,682	5,010	6,910	9,714	11,716	81	6,6752	6,914	4	60,922	77,970		E	4	8
											2				
% growth		7%	38%	41%	21%	-7%	53%	61%	0%	126%	28% 20%		15%	10%	5%
Conservative Case										126%	22%	16%	11%	7%	29
Street Case										126%	28%	20%	15%	10%	59
Optimistic Case										126%	34%	24%	19%	13%	89
												54,40			
EBIT	801	790	1,963	3,257	3,954		3,022	4,5933	10,177 4,443	34,075	45,402		62,546	68,792	72,23
% of sales	17%	16%	28%	34%	34%	28%	28%	38%	16%	56%	58% 58%		58%	58%	58%
Conservative Case				-						56%	52%	52%	52%	52%	529
Street Case										56%	58%	58%	58%	58%	58%
Optimistic Case										56%	61%	61%	61%	61%	619
Taxes										1,225	2,214 3,349		4,652	5,998	7,223
% of EBIT										4%	5%	6%	7%	9%	10%
EBIAT										32,850	43,189	51,05 2	57,894		65,009
D&A	220	197	187	199	262	381 1,54	1,098 4	3 1,17	4	3,385	4,333	5,197	5,976	6,572	6,903
% of sales	5%	4%	3%	2%	2%	3%	7%	4%	6%	6%	6%	6%	6%	6%	69
CapEx	101	79	169	591	600	489	1,128	976	1,833	3,490	4,467	5,358	6,161	6,776	7,114
% of sales	2%	2%	2%	6%	5%	4%	7%	4%	7%	6%	6%	6%	6%	6%	69
Change in NWC	181	-10	638	-241	845	-716	364	2,899	-	1,299	1,663	1,995	2,293	2,522	2,649
% of sales	4%	0%	5 9:	% -2	2%	7% -	7%	2%	11%	2%	2%	2%	2%	2%	2%
												48,89			
Unlevered FCF										31,446	41,392	6	55,416	60,068	62,146
Present Value of FCF										31,446	39,646	42,96 7	44,675	44,428	42,169
													•		
Period										0.00	1.00	2.00	3.00		5.00
Discount Period										0.00	0.50	1.50	2.50	3.50	
Terminal Value															9,80,00
Present Value of Termina	I														6,64,9
Value			-					-	-						9.10.5
Enterprise Value															9,10,3
(+) Cash												1	+	+	16,02
-) Debt												1	+	+	9,70
1 5000				_							+	1	+	+	9,16,62
											_	 			2,10,02

2. Pay Back Period: The payback period is also called pay out method. This shows the period in which initial investment is recovered. Pay-back period is calculate by diving initial investment by cash inflow.

Table-2 (in million \$)

Year	Profit after Tax	Depreciation	Cash Flow	Cumulative Cashflow
2016-17	1,666	187	1,853	1,853
2017-18	3,047	199	3,246	5,099
2018-19	4,141	262	4,403	9,502
2019-20	2,796	381	3,177	12,679
2020-21	4,332	1,098	5,430	18,109
2021-22	9,752	1,174	10,926	29,035

Equity Value
Diluted Shares
Implied Stock Price



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2022-23	4,368	2,709	7,077	36,112

Initial Investment = 5,762

Pay-back Period = time before whole recovery + not recovered cost / cash inflow during that year in which whole investment is recovered.

- = 2 + 663 / 4.403
- = 2 + 0.1505
- = 2.01 years

Interpretations: Based on the provided data, the payback period for NVIDIA's investment is calculated to be approximately 2.01 years. This suggests that the initial investment of \$5,762 will be fully recovered in just over two years, reflecting a relatively short timeframe for capital recoupment. This rapid payback period indicates favourable investment returns and efficient capital utilization, aligning with NVIDIA's strong financial performance and strategic investment decisions.

3. Accounting Rate of Return: Accounting rate of return (ARR) is also called accounting method or non-discounted rate of return method. This rate shows the profitability which will be earned from average investment. From all proposals, which have higher rate is accepted.

Table-3 (in million \$)

Year	Profit after Tax	Depreciation	Cash Flow	
2016-17	1,666	187	1,853	
2017-18	3,047	199	3,246	
2018-19	4,141	262	4,403	
2019-20	2,796	381	3,177	
2020-21	4,332	1,098	5,430	
2021-22 9,752		1,174	10,926	
2022-23 4,368		2,709	7,077	

ARR= Average Annual return after Tax / Average Investment 100

- =4,300 / 2,881 100
- = 149.25 % / 1.49 times

Average Annual return after Tax = Total return after Tax / no. of years

- =30,102/7
- =4,300.2857

Average Investment = Initial Investment /2

- =5,762/2
- = 2,881

Interpretation:

Based on the provided data, the Accounting Rate of Return (ARR) for the investment proposal is approximately 149.25% or 1.49 times. This indicates that for every unit of investment made, the project is expected to generate a return of 1.49 times over its lifespan.

Interpreting this ARR, we can conclude that the investment proposal is financially attractive as it offers a high rate of return compared to the average investment. This suggests that the project is expected to be profitable and may be considered favourable compared to other investment options.



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4. Net Present Value (NPV): This is also called excess present value. Net present value is a discounted technique of Capital budgeting to analyses the present value of a proposal or initial investment. It is calculated by taking the gap between the present value of earnings and present value of investment over a period of time.

Table-4 (in million \$)

Year	Cash Flow	PV Factor @ 12	Net Present Value
2016-17	1,853	0.892	1652.876
2017-18	3,246	0.797	2587.062
2018-19	4,403	0.711	3130.533
2019-20	3,177	0.635	2017.395
2020-21	5,430	0.567	3078.81
2021-22	10,926	0.506	5528.556
2022-23	7,077	0.452	3198.804
Total	,	<u>,</u>	21194.036

Net Present Value = Present Value of Cash Inflow - Present Value of Cash Outflow

Interpretation: The calculated Net Present Value (NPV) of \$15,432.036 indicates that the project is expected to generate positive value after accounting for the present value of both cash inflows and outflows. This suggests that the project is financially favourable, as it generates more value than the initial investment, making it an attractive investment opportunity.

5. Profitability Index (PI): The profitability index (PI) is also called present value index or profit cost ratio. This is a relative measure. It shows the connection between the costs and return of a proposal. It is calculated by taking the ratio between present value of cash inflow or earning and the initial investment of the project.

Table-5 (in million \$)

Year	Cash Flow	PV Factor @ 12	Net Present Value
2016-17	1,853	0.892	1652.876
2017-18	3,246	0.797	2587.062
2018-19	4,403	0.711	3130.533
2019-20	3,177	0.635	2017.395
2020-21	5,430	0.567	3078.81
2021-22	10,926	0.506	5528.556
2022-23	7,077	0.452	3198.804
Total			21194.036

Profitability Index (PI) = Present Value of Cash Inflow / Present Value of Cash Outflow

Interpretation: The Profitability Index (PI) of 3.678 suggests that for every unit of investment made, the project is expected to generate approximately 3.678 units of present value of cash inflows. This

^{= 21,194.036 - 5,762}

^{= 15,432.036}

^{= 21,194.036 / 5,762}

^{= 3.678}



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indicates a highly favourable investment opportunity, as the PI value is significantly greater than 1, signifying that the project's returns outweigh the initial investment, making it an attractive option for investors.

6. Internal rate of Return: The internal rate of return is also called Discounted Cash Flow Rate. This is a technique used in analysis of proposal to determine the profitability of probable investments in firm. IRR is a rate which equates the present value of cash inflow and present value of cash outflow. If this rate is higher than external rate, proposal can be accepted.

Table-6 (in million \$)

Year	Cash Flow	PV Factor @ 12	Net Present Value
2016-17	1,853	0.892	1652.876
2017-18	3,246	0.797	2587.062
2018-19	4,403	0.711	3130.533
2019-20	3,177	0.635	2017.395
2020-21	5,430	0.567	3078.81
2021-22	10,926	0.506	5528.556
2022-23	7,077	0.452	3198.804
Total	1	-	21194.036

Table-7 (in million \$)

Year	car Cash Flow PV Factor (Net Present Value
2016-17	1,853	0.833	1543.549
2017-18	3,246	0.694	2252.724
2018-19	4,403	0.578	2544.934
2019-20	3,177	0.482	1531.314
2020-21	5,430	0.401	2177.43
2021-22	10,926	0.334	3649.284
2022-23	7,077	0.279	1974.483
Total	•		15673.718

Internal Rate of Return = $LDR + \{(P1 - Q) / (P1 - P2)\}(HDR - LDR)$

- $= 12 + \{(21,194.036 5,762) / (40,442.57 15,673.7) (20-12)\}$
- = 12 + (15,432.036 / 24,768.87) 8
- = 12 + (0.623) 8
- = 12 + 4.98
- = 16.98 %

Where:

LDR stands for Low Discounted Rate

P1 stands for Present Value at the Low Discounted Rate P2 stands for Present Value at the High Discounted Rate Q stands for Initial Investment

HDR stands for High Discounted Rate

Interpretation: The calculated Internal Rate of Return (IRR) of approximately 16.98% suggests that the project's profitability exceeds the specified discount rate of 12%. This indicates that the investment is



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expected to yield a return higher than the cost of capital, making it an attractive opportunity for the firm. The positive IRR confirms that the project's cash inflows are sufficient to cover the initial investment and generate additional value, supporting the decision to accept the proposal.

Interpretation:

- 1. Robust Revenue Growth: The DCF analysis reveals a substantial revenue growth trajectory for NVIDIA, with revenues expected to surge from \$4,682 million in 2014 to \$1,24,188 million by 2028. This indicates a remarkable expansion potential driven by technological advancements and market demand, positioning NVIDIA as a leading player in the semiconductor industry.
- 2. Strategic Financial Management: NVIDIA's prudent financial management is evident through its effective capital allocation strategies, as depicted by the disciplined approach to capital expenditure and working capital management. This reflects the company's commitment to optimizing resource utilization and maximizing shareholder value over the forecast period.
- 3. Enhanced Profitability: The analysis forecasts a significant increase in EBIT, reaching \$72,232 million by 2028, driven by robust revenue growth and operational efficiency. This underscores NVIDIA's ability to enhance profitability and generate sustainable returns for investors, reinforcing its competitive position in the market.
- 4. Positive Free Cash Flow Generation: NVIDIA is projected to generate strong free cash flows, with an unlevered FCF of \$62,146 million by the end of the forecast period. This indicates the company's capacity to fund growth initiatives, invest in research and development, and return value to shareholders through dividends and share buybacks.
- 5. Attractive Equity Value: The DCF analysis yields an attractive equity value of \$9,16,628 million, reflecting the intrinsic worth of NVIDIA's business operations. This underscores the company's potential to deliver substantial value to equity investors over the long term, driven by sustained revenue growth and profitability.
- 6. Strategic Investment Opportunity: Overall, the DCF analysis portrays NVIDIA as a compelling investment opportunity, characterized by robust financial performance, strategic market positioning, and strong growth prospects. Investors may consider NVIDIA as an attractive option for long-term capital appreciation and portfolio diversification in the technology sector.
- 7. NVIDIA's DCF analysis projects robust revenue growth, with an expected surge from \$4,682 million in 2014 to \$1,24,188 million by 2028.
- 8. The analysis considers three scenarios: conservative, street/base, and optimistic, reflecting varying revenue and EBIT growth rates.
- 9. EBIT is anticipated to increase steadily, reaching \$72,232 million by 2028, highlighting the company's potential for sustained profitability enhancement.
- 10. Conservative projections indicate an EBIT margin of 56%, while the optimistic scenario forecasts a margin of 61%, illustrating potential profitability variance.
- 11. Taxes are estimated to increase proportionally with EBIT, with a tax rate ranging from 4% to 10% over the forecast period.
- 12. 6. The analysis accounts for depreciation and amortization (D&A) and capital expenditures (CapEx) as percentages of sales.
- 13. Unlevered free cash flows (FCF) are projected to grow consistently, reflecting NVIDIA's ability to generate cash from its operations.



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- 14. The present value of FCF is calculated using discount rates corresponding to each forecast period, with a terminal value included.
- 15. Enterprise value is determined by adding cash and subtracting debt, yielding an equity value of \$9,16,628 million.
- 16. The implied stock price based on the DCF analysis is \$364.32, implying an 11% loss compared to the current share price of \$410.17.
- 17. 11. The analysis provides insights into NVIDIA's financial performance and future growth potential, aiding investors in decision-making.
- 18. Scenario-based projections offer a range of potential outcomes, allowing for a comprehensive assessment of risk and reward.
- 19. Sensitivity analysis could further enhance the analysis by evaluating the impact of changing assumptions on equity value.
- 20. NVIDIA's ability to execute its growth strategy and navigate industry dynamics will play a crucial role in realizing the projected outcomes.
- 21. Overall, the DCF analysis provides valuable insights into NVIDIA's financial outlook, serving as a useful tool for investors evaluating the company's investment potential.

Findings:

- 1. Efficient Capital Utilization: Nvidia's Investment Demonstrates A Rapid Payback Period Of Approximately
- 2. 2.01 Years, Indicating Efficient Capital Recoupment And Aligning With The Company's Strategic Financial Acumen.
- 3. Robust Profitability: The High Accounting Rate of Return (ARR) Of Approximately 149.25% Showcases Robust Profitability, Surpassing Industry Benchmarks and Portraying the Project as An Enticing High-Yield Opportunity.
- 4. Positive NPV And Favourable Pi: The Positive Net Present Value (NPV) Of \$15,432.036 And A Highly Favourable Profitability Index (Pi) Of 3.678 Affirm the Project's Financial Attractiveness and Potential for Creating Shareholder Wealth.
- 5. Accelerated Revenue Growth: Nvidia's Forecasted Revenue Growth Trajectory, reaching \$1,24,188 Million By 2028, Underscores Its Ability to Capture Market Share and Establish a Strong Presence in The Semiconductor Industry.
- 6. Prudent Financial Management: Nvidia's Prudent Financial Management Practices, Exemplified by
- 7. Disciplined Capital Allocation and Efficient Working Capital Management, Enhance Investor Confidence and Position the Company for Sustained Profitability and Shareholder Value Creation.

Suggestions:

- 1. Optimize Cash Flow Management: Implement Stringent Cash Flow Management Practices To Enhance Liquidity And Mitigate Working Capital Risks, Ensuring Timely Collection Of Receivables And Prudent Management Of Payables.
- 2. Diversify Revenue Streams: Explore Opportunities To Diversify Revenue Streams Beyond Core Business Segments, Leveraging Technological Prowess To Penetrate Emerging Markets And Capitalize On Evolving Consumer Trends, Thus Reducing Reliance On Specific Product Lines Or Market Segments.



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- 3. Enhance Cost Efficiency: Streamline Operational Processes And Optimize Cost Structures To Maximize Profitability And Shareholder Value, Thereby Bolstering Bottom-Line Performance Through Improved Efficiency.
- 4. Invest In Research And Development (R&D): Allocate Resources Towards Sustained Investment In R&D Initiatives To Drive Innovation And Maintain Technological Leadership, Ensuring A Competitive Edge In Rapidly Evolving Industries And Fostering Sustainable Growth.
- 5. Strengthen Risk Management Framework: Fortify Risk Management Frameworks To Proactively Identify, Assess, And Mitigate Potential Risks Across The Investment Portfolio, Safeguarding Against Unforeseen Market Volatility And Operational Disruptions, Thus Enhancing Resilience And Sustainability.

Conclusion:

In conclusion, the analysis reveals that NVIDIA's investment presents a compelling opportunity for investors. The remarkably short payback period of approximately 2.01 years reflects efficient capital utilization and underscores the company's strategic financial acumen. Moreover, the high Accounting Rate of Return (ARR) of approximately 149.25% and positive Net Present Value (NPV) of \$15,432.036 indicate robust profitability and surplus value generation, affirming the project's feasibility and potential for creating shareholder wealth. Additionally, the favourable Profitability Index (PI) of 3.678 further emphasizes the project's attractiveness, positioning it as a lucrative investment option amidst competitive market dynamics. Thus, it is recommended that investors consider investing in this project, while the company should continue evaluating different projects to maximize long-term profitability and sustainability. NVIDIA's DCF analysis underscores its potential for substantial revenue growth, prudent financial management, and sustained profitability enhancement. With strong free cash flow generation and attractive equity value, the firm is well-positioned for long-term success. Strategic investments in R&D, partnerships, diversification, and ESG initiatives can further solidify its competitive position and unlock new avenues for growth, reaffirming NVIDIA's status as a compelling investment opportunity in the dynamic technology landscape.

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