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# Tech Firm Performance Using FinRobot



Taylor Wang 4 min read · 18 hours ago



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Over the past few years, the focus of the technology industry has shifted. Instead of being driven mainly by consumer products and platform features, much of the attention has moved toward the infrastructure that supports new technologies, such as semiconductors and cloud computing. With this change, tools like FinRobot can be used to generate financial reports that help people understand company performance more efficiently. This report mainly focuses on evaluating FinRobot's performance by having it generate equity research reports for five major tech / semiconductor companies: NVIDIA, AMD, Intel, Apple, and Alphabet (Google). The evaluation will focus on both the quality of the report and the extent to which FinRobot's conclusions align with mainstream industry understanding.

The five reports were produced using FinRobot's multi-agent system in the local environment. The setup includes configuring the working directory, loading API credentials, and connecting to OpenAI, Financial Modeling Prep, and SEC data sources. This allowed the system to access financial data and run analysis tools. The Expert agent used several tools that support the research workflow, such as analyzing financial statements, and generating the final report.

For each company, four variables were specified: company name, ticker, competitor set, and fiscal year. In each run, the system generated different sections and did analysis including business overview, market position, operating results, risk factors, and competitor comparison, checked section

length, and assembled the final report into a formatted PDF. Each company produced an independent file. The process was repeated five times. Each run required different company inputs, including company name, ticker, competitors, and fiscal year. An example of a FinRobot-generated annual report is shown below.

## Equity Research Report: NVIDIA Corporation

### Business Overview

NVIDIA Corporation, a leader in accelerated computing platforms, has demonstrated a remarkable trajectory of growth and innovation. In fiscal year 2024, NVIDIA capitalized on its strategic advantages in AI, gaming, professional visualization, and automotive sectors, driving significant revenue growth and operational efficiency. The company's pioneering technologies, such as the NVIDIA Hopper GPU computing platform, have set new industry standards, reinforcing its position at the forefront of AI and graphics processing. NVIDIA's commitment to innovation is matched by its focus on sustainable and ethical AI development, ensuring its leadership role in the technological evolution.

### Market Position

In fiscal year 2024, NVIDIA solidified its market leadership through strategic expansions across key sectors, including AI, gaming, automotive, and professional visualization. The company's innovative product offerings and strategic partnerships have enabled it to capture significant market share and set new standards in technology and performance. NVIDIA's focus on developing cutting-edge AI technologies has positioned it as a key enabler of the AI revolution, driving demand for its products in data centers, gaming, and autonomous vehicles. The company's ability to adapt and innovate in response to market demands underscores its resilient market position and potential for future growth.

### Operating Results

In fiscal year 2024, NVIDIA witnessed a remarkable financial performance, with revenue soaring to \$60.922 billion, up 126% from the previous year, driven by substantial growth in its Compute & Networking segment, which saw a 215% increase due to heightened demand for data center products and a 266% surge in Compute revenue, emphasizing NVIDIA's dominance in AI and accelerated computing. The Graphics segment also contributed positively, with a 14% revenue increase, underpinned by a 15% rise in Gaming revenue, showcasing NVIDIA's innovative edge and market adaptability. Operating income and net income skyrocketed by 681% and 581% respectively, reflecting operational efficiency and a successful scaling strategy. This financial robustness, coupled with strategic advancements in AI technologies and significant market demand for its computing platforms, positions NVIDIA well for continued growth, despite challenges related to global supply chain complexities and evolving international trade policies.

### Financial Metrics

FY (USD mn)	2021	2022	2023	2024	2025
Revenue	16675	26914	26974	60922	130497
Revenue Growth	-38.0%	-0.2%	-55.7%	-53.3%	682.6%
Gross Revenue	10396	17475	15356	44301	97858
Gross Margin	0.62	0.65	0.57	0.73	0.75
EBITDA	5691	11351	5986	35583	86137
EBITDA Margin	0.34	0.42	0.22	0.58	0.66
FCF	5822	9108	5641	28090	64089
FCF Conversion	1.34	0.93	1.29	0.94	0.88
ROIC	17.1%	24.6%	11.7%	51.3%	75.3%
EV/EBITDA	58.62	54.72	81.05	43.45	33.78
PE Ratio	75.43	62.68	109.09	51.83	39.9
PB Ratio	19.34	22.97	21.56	35.89	36.66

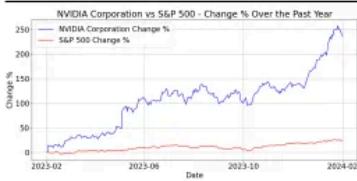
### FinRobot

<https://ai4finance.org/>  
<https://github.com/AI4Finance-Foundation/FinRobot>  
Report date: 2024-02-21

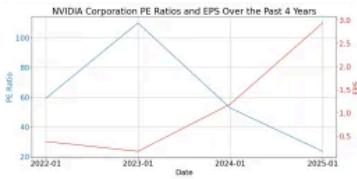
### Key data

Rating	buy
Target Price	90.0 - 1400.0 (md. 250.0)
6m avg daily vol (USDmn)	462.83
Closing Price (USD)	69.41
Market Cap (USDmn)	1661111.40
52 Week Price Range (USD)	21.08 - 72.46
BVPS (USD)	1.74

### Share Performance

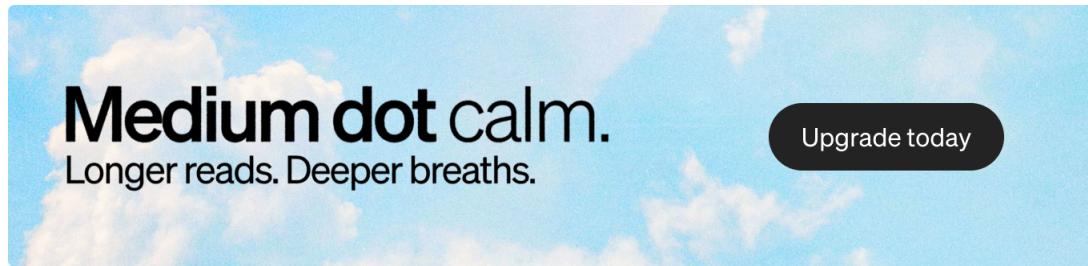


### PE & EPS



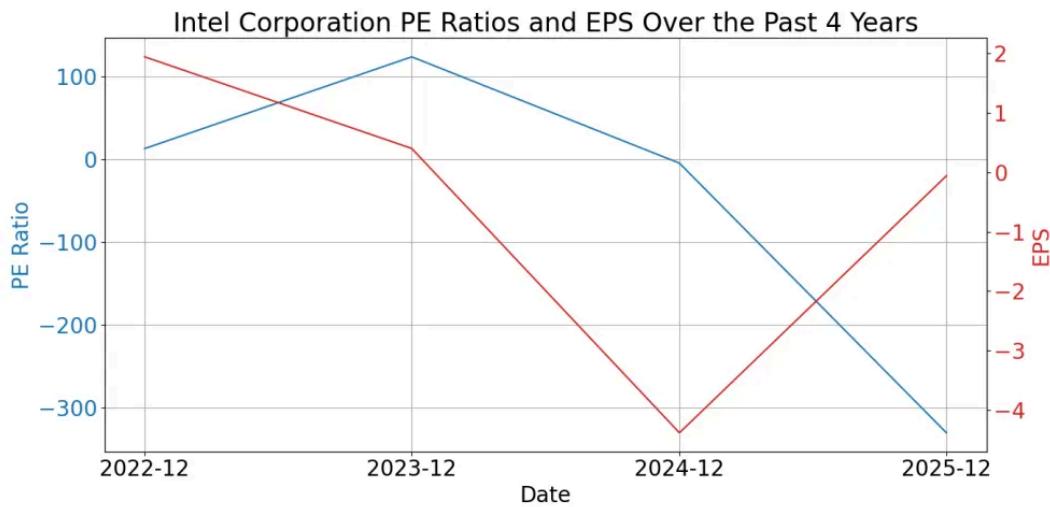
During generation, a repeat issue was observed across the main sections. Business overview, market position, and operating results sometimes contained similar text. This occurred because the system relied on overlapping information sources when producing different sections. To address this, the task design was adjusted so that each section focused on a

different objective and used different inputs. Business overview emphasized business situation, market position focused on competition, and operating results concentrated on financial drivers. After these changes, the reports became more coherent and less repetitive.



In terms of quality, the reports show a clearly structured and easy to follow. Financial metrics, charts, and tables support the narrative, and the standardized pipeline makes comparison across companies easier. The reports also rely on data and visualizations to support conclusions, helping readers understand company performance and market positioning. Overall, they provide a useful introduction to each firm and combine different pieces of market information in one place.

## PE & EPS



However, the analysis is sometimes shallow. Many sections describe reported metrics without fully explaining the underlying strategic drivers. Competitor analysis often depends heavily on numerical comparison and does not incorporate broader context such as market news or strategic positioning. Because all five firms operate in the same industry, some

judgments are repeated across reports, such as references to semiconductor growth, regulatory risks, and companies seeking new opportunities. These points are valid but are not always differentiated at the firm level.

There are also cases where the narrative is not fully consistent. In the AMD report, it first emphasizes the company's innovative product lines, but later suggests that its business expansion is limited and that there are fewer new growth directions. Without explaining this shift, the analysis feels somewhat contradictory. This shows that the system can produce reasonable observations but does not always connect them into a coherent storyline.

From my perspective, FinRobot's interpretation of the industry is generally consistent with common market views. The system consistently identifies artificial intelligence and computing infrastructure as the central growth drivers shaping company performance. In the NVIDIA report, the analysis highlights strong revenue growth driven by data center demand, with total revenue reaching about \$60.9 billion, up roughly 126% year over year. The report positions NVIDIA as the primary beneficiary of the AI boom, emphasizing its leading position in the semiconductor and AI hardware market, which reflects common industry narratives. AMD is described as expanding its product portfolio and improving its competitive position, aligning with how the market views AMD as a challenger that is gaining share but still trailing the market leader. Intel is a company undergoing transition, which matches the market news. The report notes mixed financial signals, including pressure on revenue growth and increased capital expenditures, which mirrors market discussions around Intel's restructuring and long term turnaround strategy. The Apple report emphasizes the company's strategy of product diversification, noting that revenue grew modestly to around \$391 billion with services showing stronger growth (about 13%), suggesting that growth increasingly comes from services, wearables, and ecosystem expansion rather than hardware alone. This framing aligns with how the market typically interprets Apple's long-term strategy. Alphabet is similarly presented as a platform company with growth driven by cloud computing and advertising rather than hardware leadership. These viewpoints are in line with the mainstream view.

Overall, this project shows that FinRobot can effectively organize large amounts of financial information and produce structured equity research

reports across comparable firms. It quickly organizes financial information, generating visualizations, and providing a structured overview of company performance and market position. At the same time, it requires improvement in depth, differentiation, and future analysis. The system is effective as a starting point for research but still depends on human interpretation to produce deeper insights.

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**Written by Taylor Wang**

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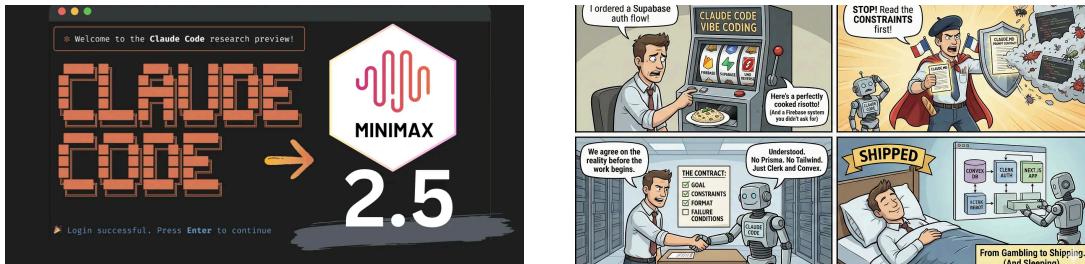
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Taylor Wang

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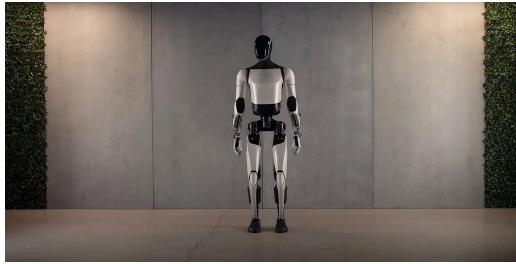


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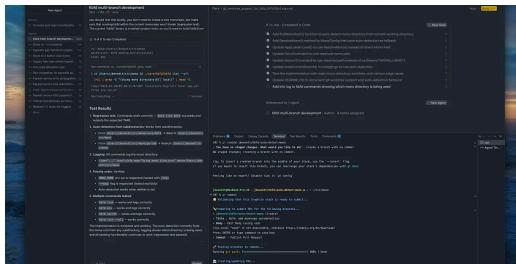


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