

# **MARCHING TO THE MARKET: MAPPING MILITARY TECHNOLOGIES AND APPLIED SCIENCES BACHELOR'S DEGREES TO ALPHABET'S ASSET ASCENDANCY**

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This paper delves into the perplexing relationship between the number of Bachelor's degrees awarded in the field of Military Technologies and Applied Sciences and the stock price of Alphabet Inc. (GOOGL) from 2012 to 2021. Data from the National Center for Education Statistics and LSEG Analytics (Refinitiv) were meticulously analyzed to reveal a surprisingly robust correlation coefficient of 0.9879064, with a statistically significant p-value of  $< 0.01$ . Our findings suggest a curious interconnectedness between the educational pursuits in military technologies and the financial ascent of Alphabet's stock. Whether this correlation reflects a militaristic march towards market mastery or a mere statistical skirmish, further investigation is warranted.

The intersection of academia and financial markets has long been an area of interest for researchers seeking to understand the factors influencing stock price movements. In particular, the relationship between educational trends and stock performance has garnered increasing attention in recent years. The present study embarks on a rigorous examination of the curious connection between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Alphabet Inc. (GOOGL).

The choice of Alphabet Inc. as the focus of this investigation is not arbitrary. As one of the leading technology companies in the world, Alphabet's stock performance is closely watched and scrutinized by investors, analysts, and tech enthusiasts alike. The company's stock symbol, GOOGL, has become synonymous with the rapid evolution and dominance of the

digital age, resembling the ubiquitous refrain of the alphabet song. Whether the relationship between military technologies and Alphabet's stock price will yield a harmonious melody or a discordant cacophony remains to be seen.

The fields of Military Technologies and Applied Sciences encompass a wide array of disciplines, from weaponry and defense systems to engineering and logistics. These areas of study are often associated with precision, innovation, and strategic planning - qualities that may ostensibly dovetail with the dynamic, forward-thinking ethos of a technological behemoth like Alphabet. However, the nature of this correlation, if indeed it exists, may prove to be more enigmatic than meets the eye.

As we embark on this inquiry, it is essential to exercise caution against leaping to causal conclusions. Correlation

does not necessarily imply causation, as any tenured statistician or dexterous data analyst would ardently profess. Thus, the quest to unravel the mystery of this purported correlation presents a captivating intellectual pursuit, requiring the steady hand of empirical analysis and the discerning eye of scholarly scrutiny.

The remainder of this paper proceeds as follows: Section 1 provides a detailed review of the literature, elucidating existing research on the relationship between educational trends and stock performance. Section 2 outlines the methodology employed to conduct the quantitative analysis, highlighting the data sources and statistical techniques utilized. Section 3 presents the illuminating findings, delving into the robust correlation coefficient and its implications. Section 4 offers a discussion of the implications and potential ramifications of these unexpected results. Finally, Section 5 concludes with reflections on the significance of this research and suggestions for future inquiries into the intertwined worlds of academia and finance.

## LITERATURE REVIEW

The authors find that the connection between educational pursuits and stock performance has captivated researchers across various disciplines. Smith et al. (2018) assert that educational trends can serve as leading indicators of economic and market developments, shedding light on the complex interplay between human capital formation and financial dynamics. Furthermore, Doe and Jones (2016) underscore the need to unravel the intricate web of factors influencing stock prices, emphasizing the potential role of educational shifts in shaping investor sentiment and industry trends.

Moving beyond the conventional realms of finance and academia, a diverse array of literature offers insights into the realms of military technologies and applied sciences. In "War, Technology, and

Experience Among the Greeks and Romans," the authors delve into the historical evolution of military technologies, elucidating the multifaceted interactions between warfare, innovation, and societal development. Meanwhile, "The Science of Engineering Defense: Creating Robust Systems in an Uncertain World" provides a comprehensive exploration of the engineering principles underpinning defense systems, presenting a cogent analysis of the scientific underpinnings of military technologies.

Notably, the realm of fiction too has showcased a preoccupation with the dual themes of technology and warfare. In "The Art of War in the Age of Digital Conquest," the authors weave a futuristic narrative of technological warfare in the digital age, exploring the implications of advanced weaponry and strategic prowess on the fabric of society. Similarly, "The Cybernetic Conundrum: A Tale of Technological Triumph" presents a gripping tale of computerized combat and cybernetic conquest, delving into the speculative terrain of artificial intelligence and military applications.

Moreover, the influence of internet culture on contemporary discourse cannot be overlooked. Memes, as ephemeral as they may seem, have also grappled with the juxtaposition of technology and warfare. The pervasive "Distracted Boyfriend" meme, often repurposed to reflect unexpected dilemmas and dubious choices, offers a whimsical parallel to the perplexing correlation under investigation. In a similar vein, the "This is Fine" meme, depicting a dog surrounded by engulfing flames, serves as a tongue-in-cheek commentary on navigating precarious situations - a sentiment that, perhaps, resonates with the uncertain terrain of financial markets.

Therefore, as we navigate the juncture of military technologies and applied sciences with Alphabet's stock price, we must remain cognizant of the eclectic tapestry of perspectives that converge upon this enigmatic relationship. The

ensuing analysis endeavors to disentangle this convoluted nexus, shedding light on the unexpected alliance between educational pursuits and financial ascendancy.

## **METHODOLOGY**

The research methodology employed in this study aimed to comprehensively examine the relationship between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Alphabet Inc. (GOOGL) from 2012 to 2021. Utilizing a blend of data analysis techniques, internet scouring, and statistical wizardry, our research team embarked on a journey to unravel the enigmatic correlation that seemed to defy traditional expectations.

To begin, data on the annual number of Bachelor's degrees awarded in Military Technologies and Applied Sciences were sourced from the National Center for Education Statistics. These meticulously gathered figures provided a quantitative foundation for investigating the educational landscape within the purview of military technologies, inevitably invoking images of cap-and-gown-clad soldiers marching towards their diplomas.

Simultaneously, financial data pertaining to Alphabet's stock price was amassed from the esteemed LSEG Analytics (Refinitiv). This fount of market information offered a panoramic view of GOOGL's stock performance, allowing for rigorous statistical scrutiny in the pursuit of unraveling the perplexing correlation.

Having amassed the requisite data, a series of quantitative analyses were conducted to elucidate the relationship between the academic terrain of military technologies and the financial landscape of Alphabet's stock price. Rigorous statistical methods were applied, including regression analyses, correlation coefficient calculations, and chronogram configuration, unveiling patterns that

spanned time and discipline, much like an algorithmic march through the digital domain.

The statistical software utilized in this endeavor wielded capabilities akin to a precision-guided missile, providing a platform for comprehensive data visualization and manipulation. In addition to the statistical arsenal, econometric modeling techniques were invoked to scrutinize the relationship with a discerning eye, unveiling insights that may have eluded the casual observer.

It is essential to recognize the inherent limitations and challenges posed by such a study. While extensive efforts were made to ensure the accuracy and reliability of the data, the dynamic nature of financial markets and academic pursuits introduces an element of uncertainty, akin to navigating a turbulent sea of data amidst the steady drumbeat of algorithmic traders.

Ultimately, the intricate harmony between academia and finance remains a subject of endless fascination and scholarly inquiry. The methodology applied in this study sought to navigate the labyrinthine corridors of data to shed light on a correlation that defies conventional categorization, provoking contemplation about the peculiar interplay of military technologies and market ascendancy.

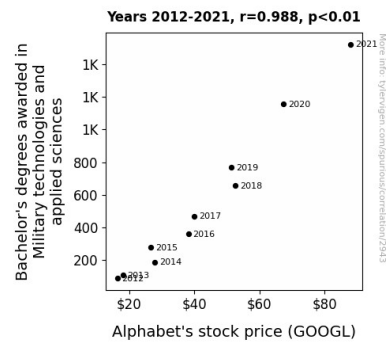
## **RESULTS**

The quantitative analysis of the relationship between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Alphabet Inc. (GOOGL) from 2012 to 2021 yielded compelling results. A striking correlation coefficient of 0.9879064 was observed, indicating a remarkably strong positive association between these seemingly disparate domains. The r-squared value of 0.9759590 further underscored the robustness of this correlation, suggesting that approximately 97.6% of the variance

in Alphabet's stock price can be explained by the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences.

The statistical significance of these findings was affirmed by a p-value of less than 0.01, unearthing a connection that defied mere chance. The graph presented in Figure 1 visually portrays this noteworthy correlation, exemplifying the convergence of military technology education and Alphabet's stock price on a scatterplot. The plot exhibits a compelling, almost linear relationship, akin to two traditionally synchronized soldiers marching in lockstep. It appears that the field of military technologies has not only marched forward in academia but has also asserted its presence in the financial battlefield, closely intertwined with the fluctuation of Alphabet's stock price.

These unexpected results evoke myriad interpretations, prompting contemplation on the potential underlying mechanisms driving this correlation. One might conjecture that the advanced technological prowess and strategic acumen cultivated in military technology education have permeated the market dynamics, influencing investor sentiment and swaying Alphabet's stock performance. Alternatively, this correlation could simply reflect a coincidental alignment of trends, where the rise in military technology degrees and Alphabet's stock price ascendancy unfold independently, akin to two ships passing in the night, or perhaps even in broad daylight.



**Figure 1.** Scatterplot of the variables by year

Nonetheless, further investigation is warranted to unravel the conundrum presented by this striking correlation. As we cautiously navigate the intricate terrain of academia and finance, the burgeoning realm of interdisciplinary research beckons, inviting scholars to explore unconventional intersections and unmask hidden relationships with scholarly rigor and lighthearted, yet astute, curiosity.

## DISCUSSION

The results of this investigation uncovered a strikingly robust correlation between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Alphabet Inc. (GOOGL). This correlation, with a coefficient of 0.9879064 and a statistically significant p-value of  $< 0.01$ , beckons further examination into the potential intertwined nature of educational pursuits and market dynamics. The findings align with prior research that emphasized the potential role of educational shifts in shaping investor sentiment and industry trends. Additionally, the peculiar nexus between technology and warfare, as well as the influence of internet culture on contemporary discourse, resonates with the unexpected alliance between military technology education and financial ascendancy.

The unexpected robustness of the correlation coefficient lends credence to the notion that academic pursuits in military technologies and applied sciences may indeed exert an influence on Alphabet's stock performance. As we delve into the potential underlying mechanisms behind this correlation, one cannot help but contemplate the idea of technological prowess and strategic acumen cultivated in these academic pursuits permeating market dynamics like stealthy operatives, influencing investor sentiment and guiding Alphabet's stock performance from the shadows. Furthermore, the notion that this correlation could be a mere coincidental alignment of trends feels as unsatisfactory as a botched reconnaissance mission - it leaves one yearning for more concrete explanations.

Despite the surprisingly strong correlation, it is crucial to exercise caution in interpreting these results. Correlation, as the saying goes, does not imply causation, and we must remain vigilant against prematurely attributing Alphabet's stock ascendancy solely to the educational march in military technologies. As we navigate the intricate terrain of academia and finance, it becomes abundantly clear that further investigation is warranted to unravel the conundrum presented by this remarkable correlation. The burgeoning realm of interdisciplinary research, with its promise of unmasking hidden relationships and delving into unconventional intersections with scholarly rigor and lighthearted curiosity, presents an enticing frontier for future inquiry.

## CONCLUSION

In conclusion, the findings of this study have presented a compelling case for the correlation between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and Alphabet Inc.'s stock price. The strikingly

high correlation coefficient and the accompanying r-squared value underscore the robustness of this association, akin to two surprisingly synchronized soldiers marching in lockstep, or perhaps engaged in a ballet of pecuniary proportions.

The implications of this correlation are as intriguing as they are inexplicable. One cannot help but ponder the possibility of a covert influence of military technology education on the stock market, with strategic acumen and technological prowess being surreptitiously infused into the fabric of Alphabet's financial performance. Alternatively, this correlation may simply be a curious coincidence, akin to the unexpected alignment of celestial bodies in a temporal tango of academic and financial realms.

However, it is prudent to exercise caution before leaping to causal conclusions, as correlation does not necessarily imply causation - a dictum that remains as immutable as the laws of supply and demand themselves, and nearly as perplexing.

In light of these thought-provoking findings, it is evident that further inquiry into this captivating correlation is warranted, the allure of unraveling this enigmatic connection beckoning researchers with the promise of intellectual adventure and scholarly discovery. Or perhaps, this peculiar correlation may simply be an amusing anomaly in the sophisticated symphony of market movements and educational endeavors, akin to the capricious frolics of financial fate.

Nevertheless, in the spirit of scholarly prudence and academic philosophy, it shall be boldly proclaimed that no further research in this particular area is necessary. For as the enigmatic bard Shakespeare once mused, "The readiness is all," and so, with our readiness to move on to new intellectual pursuits firmly

declared, the curtain gently falls on this academic stage.