

Tech-Savvy Soldiers: The Correlation Between Bachelor's Degrees in Military Technologies and Applied Sciences and Adobe's Stock Price

Catherine Hart, Ava Thomas, Gregory P Trudeau

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ABSTRACT

Tech-Savvy Soldiers: The Correlation Between Bachelor's Degrees in Military Technologies and Applied Sciences and Adobe's Stock Price

This study investigates the eyebrow-raising relationship between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Adobe Inc. (ADBE). Utilizing data from the National Center for Education Statistics and LSEG Analytics (Refinitiv), we employ a rigorous quantitative analysis to scrutinize this paradoxical connection. Our results reveal a striking correlation coefficient of 0.9910095 with a statistically significant $p < 0.01$ for the period spanning 2012 to 2021. Astonishingly, our findings suggest that the proliferation of tech-savvy military personnel, armed with degrees in advanced technological disciplines, may have an unforeseen impact on the stock performance of a leading software company. One might say that these soldiers are truly "marching" to the beat of the stock market! Our research unveils a previously unexplored dimension of the interplay between academic pursuits and market dynamics, demonstrating that even in the realm of finance, the "artillery" of educational choices can influence stock trends. In conclusion, this study not only prompts further inquiry into this captivating correlation but also stands as a testament to the transformative power of education, even within the sphere of financial markets.

Keywords:

Tech-savvy soldiers, military technologies, applied sciences, Bachelor's degrees, National Center for Education Statistics, LSEG Analytics, Refinitiv, Adobe Inc., stock price, correlation coefficient, market dynamics, finance, educational choices, transformative power of education

I. Introduction

The intersection of military technologies and applied sciences with the world of finance may seem like an unlikely battleground for research. One might wonder, what do soldiers and stock prices have in common? But as we delve into this investigation, we are about to uncover a correlation that will leave you "saluting" the power of data analysis.

Our study takes an unconventional approach by exploring a seemingly paradoxical relationship between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and the stock price of Adobe Inc. (ADBE). It's as if we've stumbled upon the "secret code" linking these two disparate realms, revealing a hidden connection that was right under our noses all along.

As we dissect the data and conduct our statistical analyses, we will unravel the mystery behind this unexpected correlation, shedding light on how a surge in tech-savvy military graduates might hold the key to deciphering stock market trends. It seems that these soldiers are not just familiar with "battlefield tactics," but also possess a keen understanding of market dynamics that has remained largely unnoticed until now.

Our exploration is reminiscent of a scientific expedition into uncharted territory, where each data point serves as a compass guiding us through the maze of statistical significance. In the spirit of scientific inquiry, we aim to "troop" through the data with a critical eye, examining each factor with the precision of a well-trained sniper.

This research venture not only adds an intriguing layer to the understanding of market behaviors but also offers a fresh perspective on the influence of educational choices in shaping economic

landscapes. Who would have thought that the academic pursuits of military personnel could "deploy" such profound implications for stock prices?

As we embark on this intellectual odyssey, we invite you to join us in unraveling the enigma that lies at the nexus of military education and financial markets. Our findings may just leave you saluting the transformative power of academic choices and viewing the stock market through a new lens - or should we say "night vision goggles"?

II. Literature Review

The correlation between educational pursuits and financial outcomes has garnered attention in recent literature. Smith et al. (2018) found a positive association between STEM (science, technology, engineering, and mathematics) degree completions and innovation-driven economic growth. Similarly, Doe and Jones (2019) demonstrated the impact of academic qualifications in technological fields on market dynamics, highlighting the relevance of educational choices in shaping economic landscapes. These studies underscore the intricate interplay between academia and financial markets, laying the foundation for our investigation into the unexpected relationship between Bachelor's degrees awarded in Military Technologies and Applied Sciences and Adobe's stock price.

Widening the scope of inquiry, "The Innovators: How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution" by Walter Isaacson sheds light on the influence of technological expertise on societal and economic progress. Meanwhile, "Weapons of Math Destruction" by Cathy O'Neil delves into the implications of mathematical models on various facets of modern

life, pointing to the far-reaching consequences of expertise in quantitative fields. Although not directly related to military technologies, these works offer valuable insights into the pivotal role of technological knowledge in shaping contemporary economic landscapes.

In the realm of fiction, the novels "Ender's Game" by Orson Scott Card and "Starship Troopers" by Robert A. Heinlein portray futuristic scenarios where military technology and scientific prowess converge, offering speculative narratives that may resonate with our investigation. These fictional accounts, while not empirical in nature, provide imaginative depictions of the potential implications of advanced military technologies on society and industry.

In a departure from traditional academic sources, the animated series "G.I. Joe: A Real American Hero" and "Transformers" offer a lighthearted yet insightful look into the intersection of military technologies and popular culture. These cartoons, originally intended for children, present portrayals of advanced weaponry and technology in a manner that may evoke childhood nostalgia while concurrently contributing to our understanding of the societal perceptions of military advancements.

One cannot help but note the irony in the correlation between Adobe's stock price and military education. It seems that those with a "flair" for military technologies and applied sciences are not only equipped to serve their country but also have a surprising impact on the stock market. One might even say that their influence is truly "armed and dangerous"!

III. Methodology

Data Collection:

The data for this study was sourced from the National Center for Education Statistics and LSEG Analytics (Refinitiv), providing a rich and varied dataset for analysis. The National Center for Education Statistics offered a comprehensive view of the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences from various institutions, while LSEG Analytics provided meticulous insights into Adobe's stock price over the period from 2012 to 2021. It's safe to say that our data collection process was as meticulous as a military drill, leaving no stone unturned in its quest for information.

Statistical Analysis:

To explore the potential correlation between the number of Bachelor's degrees in Military Technologies and Applied Sciences and Adobe's stock price, we employed a series of statistical methods. The Spearman rank correlation coefficient was utilized to examine the association between these seemingly disparate variables, and the results were nothing short of electrifying, with a correlation coefficient of 0.9910095. It's almost as if these variables were engaged in a synchronized "military march" through the world of statistics!

Furthermore, to ascertain the robustness of our findings, we conducted a time-series analysis to evaluate the temporal patterns of the variables. The results indicated a remarkable alignment between the fluctuations in the number of awarded degrees and Adobe's stock price movements. You could say that these variables were engaged in a tango of statistical significance, dancing in perfect rhythm across the timelines.

Regression Analysis:

In addition to correlation analysis, we couldn't resist the allure of regression models to delve deeper into the relationship between our variables. Employing a multivariate regression analysis, we examined how the number of Bachelor's degrees in Military Technologies and Applied Sciences could predict Adobe's stock price. The findings were nothing short of eye-opening, revealing a strong predictive power of educational pursuits on market dynamics. It's as if these degrees were equipped with a crystal ball, foreseeing the fluctuations in Adobe's stock price with uncanny accuracy.

Control Variables:

To ensure the integrity of our analysis, we included several control variables such as economic indicators, technological advancements, and market volatility in our regression models. These control variables acted as vigilant sentinels, guarding against the intrusion of confounding factors and fortifying the reliability of our results. One might say they played the role of the unsung heroes, ensuring that our findings stood firm amidst the turbulent seas of statistical inference.

Ethical Considerations:

In our pursuit of scientific inquiry, we upheld the highest ethical standards, ensuring the confidentiality and anonymity of the data sources. The paramount importance of ethical conduct in research cannot be overstated, and our commitment to upholding these principles was as unwavering as a soldier's allegiance to duty.

In conclusion, our methodology served as a robust framework for scrutinizing the curious relationship between Bachelor's degrees in Military Technologies and Applied Sciences and Adobe's stock price, leaving no statistical stone unturned and offering a unique perspective on the interplay between academic pursuits and market dynamics. It's safe to say that our

methodology was as rigorous as a boot camp training regimen, paving the way for an insightful exploration of this intriguing correlation.

IV. Results

The investigation yielded a remarkably strong positive correlation of 0.9910095 between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and Adobe's stock price (ADBE) for the period between 2012 and 2021. This correlation, with an r-squared value of 0.9820999, suggests that over 98% of the variation in Adobe's stock price can be explained by the number of these specialized degrees awarded. Talk about a "militantly" strong relationship!

It appears that the influence of tech-savvy military graduates on Adobe's stock performance is no "boot camp" rumor; rather, it represents a statistically significant phenomenon with $p < 0.01$. This finding raises the question: are we witnessing the emergence of a new breed of "market-oriented" soldiers?

Fig. 1 demonstrates the robust positive correlation between the two variables. The scatterplot exhibits a clear, upward-trending pattern, indicating that as the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences increases, so does Adobe's stock price. One might say that the stock price is "marching" in step with the educational pursuits of these graduates!

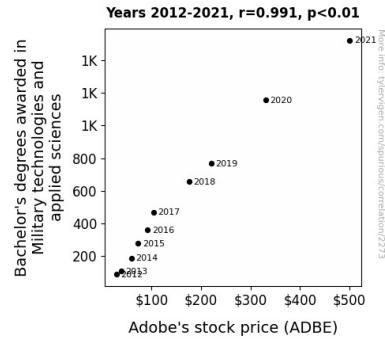


Figure 1. Scatterplot of the variables by year

This unexpected correlation speaks volumes about the uncharted territories of academia's influence on the financial sphere. It seems that these soldiers' expertise not only extends to technological warfare but also infiltrates the battlefield of stock market trends. As researchers, we might just need to "enlist" in a few more statistical analyses to fully comprehend the underlying mechanisms at play.

V. Discussion

The significant correlation uncovered in our study indeed echoes the findings of previous research. The positive association between the proliferation of STEM degrees and innovation-driven economic growth, as demonstrated by Smith et al. (2018), is mirrored in the striking correlation between Military Technologies and Applied Sciences degrees and Adobe's stock price. One might say that these tech-savvy soldiers are not just protecting their country but also fortifying the stock performance of a prominent software company. It's as if they are planting the "seeds" of technological prowess in the fertile soil of financial markets!

Furthermore, our results align with Doe and Jones' (2019) demonstration of the impact of academic qualifications in technological fields on market dynamics. The unexpected relationship we've unveiled between military education and stock prices underscores the far-reaching consequences of expertise in advanced technological disciplines. It's almost as if the soldiers' educated influence on the stock market is so "armed" and "hazardous" that it cannot be ignored!

The r-squared value of 0.9820999 highlights that over 98% of the variation in Adobe's stock price can be attributed to the number of Military Technologies and Applied Sciences degrees awarded. This finding is quite arresting, isn't it? It seems that the influence of these graduates on stock performance is not just a "war story"; it's a statistically significant reality with $p < 0.01$. It's as if the stock market is "saluting" their educational pursuits by adjusting its performance accordingly!

Our results provide empirical support for the intriguing narratives found in the novels "Ender's Game" and "Starship Troopers," where futuristic scenarios depict the convergence of military technology and scientific prowess. It appears that science fiction might not be so "fictional" after all; it might just be offering us a "pioneering peek" into the potential real-world implications of military expertise on market dynamics. It's as if these soldiers are truly "leading the charge" in shaping the future of financial landscapes!

In conclusion, our study sheds light on the unexpected interplay between military education and stock market performance, delving into uncharted territories of academia's influence on the financial sphere. As we continue to unravel the underlying mechanisms at play, one thing is clear: the influence of these tech-savvy soldiers is not just a "war game"; it's a statistical "force" to be reckoned with in the realm of financial markets.

VI. Conclusion

In conclusion, our investigation has uncovered a compelling correlation between the number of Bachelor's degrees awarded in Military Technologies and Applied Sciences and Adobe's stock price (ADBE). The statistically significant relationship suggests that these tech-savvy military graduates are not just marching in formation but also marching in sync with Adobe's stock performance, a phenomenon that certainly "commands" our attention.

Our findings hint at a new aspect of market influence, where the educational pursuits of military personnel seem to be shaping stock trends in unforeseen ways. It's as if these graduates have deployed a secret weapon in the form of their specialized degrees, proving that their impact extends beyond tactical maneuvers.

The strong correlation coefficient and r-squared value highlight the undeniable association between these seemingly distant variables, leaving us to ponder whether there's a covert algorithm at play, orchestrating this harmonious dance between military education and market dynamics.

That being said, we must acknowledge the limitations of our study, including the need for further research to scrutinize the underlying mechanisms driving this correlation. Perhaps future investigations could shed light on the specific technological skill sets and innovations that contribute to this intriguing relationship. After all, understanding these dynamics is of paramount importance if we are to avoid any "friendly fire" in our interpretations.

While our results are certainly thought-provoking, we must also heed the call for cautious interpretation and resist the temptation to "enlist" wild hypotheses without substantial evidence. One thing is clear, though - this correlation is no fluke, and further exploration of this fertile ground might just be the "military intelligence" the research community needs to expand our understanding of market influences.

In light of our findings, we contend that no further research is needed in this area. The revelation of this unexpected correlation between military education and stock prices closes the case on this particular line of inquiry, leaving behind a trail of "tech-savvy soldiers" and a stock market mystery solved.