

Schooling the Stock Market: A Grade-A Analysis of the Relationship Between 12th Grade Public School Enrollment and Activision Blizzard's Stock Performance

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Abstract

In this study, we dove headfirst into the world of finance and education to unpack the curious connection between the number of public school students in 12th grade and Activision Blizzard's stock price (ATVI). Our research team, after tirelessly crunching numbers from the National Center for Education Statistics and LSEG Analytics (Refinitiv), uncovered a correlation coefficient of 0.9214395 and a p-value less than 0.01 for the period between 2010 and 2022. Now, before we delve into the nitty-gritty data, let's address the elephant in the room, or should I say the "elephant in the classroom" - the unlikely pairing of 12th grade enrollment and a gaming company's stock. This research seeks to answer the age-old question: "What does the senior class have to do with stock market sass?" As we delved into this unorthodox association, we couldn't help but crack a joke fitting for a high school corridor. Perhaps the correlation between senior students and ATVI's stock can be attributed to the students "leveling up" in education, as the stock "levels up" in the market! But, jokes aside, our findings revealed a strikingly significant correlation between 12th-grade public school enrollment and the stock performance of Activision Blizzard. This unexpected relationship raises intriguing questions about the potential influence of educational trends on the gaming industry and, conversely, the impact of entertainment companies on student preferences and behaviors. In conclusion, our analysis provides thought-provoking insights into the intertwined dynamics of education and finance, demonstrating that even in the world of numbers and stock tickers, the influence of the classroom may be more significant than initially presumed. We may have to redefine the old adage from "stay in school" to "invest in school."

1. Introduction

In the world of research, we often find ourselves diving into unexpected correlations and uncovering peculiar connections that provoke both fascination and bewilderment. This study, "Schooling the Stock Market," embarks on a unique journey, seeking to unravel the enigmatic relationship between the number of 12th-grade public school students and the stock performance of Activision Blizzard (ATVI). As we ventured into this uncharted territory, we encountered statistical surprises akin to stumbling upon a rare loot drop in a video game.

Speaking of loot drops, it's quite the quest to decipher how the quantity of high school seniors could hold any sway over the financial fate of a video game giant. But as researchers, we're no strangers to embarking on daring expeditions, even if it takes us into the most unexpected of dungeons – or in this case, high school cafeterias.

Before we unveil the groundbreaking findings of our analysis, let's pause for a moment to appreciate the irony of this endeavor. Who would have thought that the number of students in their final year of high school could impact the stock price of a company known for virtual conquests and digital realms? It's as if the stock market is trying to solve a riddle worthy of a high-stakes game – "What do 12th graders and ATVI stock have in common? They both excel at 'high' scores!"

Jokes aside, our exploration has yielded results that are as eye-opening as a surprise attack in a game of strategy. The correlation coefficient of 0.9214395 and a p-value less than 0.01 don't just raise eyebrows; they raise the question of what mysterious forces are at play in this intricate web of data. It's as if we stumbled upon an unexpected cheat code that unlocks the connection between education and market performance.

2. Literature Review

To understand the unusual and seemingly preposterous link between the number of public school students in 12th grade and Activision Blizzard's stock price (ATVI), we must first explore existing literature and research on unexpected correlations in the world of finance and education.

In "The Role of Demographics in Stock Market Performance," Smith et al. highlight the impact of demographic shifts on stock prices, emphasizing the influence of population trends on market dynamics. Similarly, Doe's "Educational Trends and Their Impact on Consumer Behavior" delves into the intricate relationship between educational patterns and consumer choices, shedding light on the subtle yet profound connections between schooling and economic decisions.

Now, hold onto your backpacks and lunchboxes, because we're about to take a turn into uncharted territory. Let's consider "Stocks for Dummies" by Jones, a definitive guide to navigating the complexities of stock market investments. While this book may not delve

into educational demographics, it does offer valuable insights into the whims of market trends and the peculiarities of stock valuation – proving that even dummies can appreciate the curious interplay of numbers and human behavior.

Turning to the realm of fiction, "The Catcher in the Rye" by J.D. Salinger, though not a finance guide, provides a poignant exploration of the challenges and complexities of adolescence, offering a unique lens through which to contemplate the influence of senior students on market forces. Moving further into the realm of speculative fiction, "Ender's Game" by Orson Scott Card presents a gripping narrative of young prodigies navigating futuristic war games, drawing parallels to the potential impact of youthful perspectives on entertainment industries – and potentially, on stock performance.

And let's not forget the invaluable insights gleaned from "The Magic School Bus" series, as Ms. Frizzle and her class embark on educational adventures that defy the boundaries of conventional learning. One can't help but wonder if a field trip into the stock market would shed light on the enigmatic relationship between 12th-grade enrollment and ATVI's stock – perhaps illustrating that the real magic lies in the unexpected correlations that spark curiosity and imagination.

As we chart the uncharted waters of the correlation between 12th-grade public school enrollment and Activision Blizzard's stock performance, we recognize the paradoxical nature of this inquiry, akin to navigating through a perplexing maze of numbers and unforeseen connections. While the journey into this research may appear whimsical, the implications of our findings may prompt a reevaluation of the interplay between education, market dynamics, and the potential for unanticipated influences on stock performance.

3. Research Approach

Our research methodology was as methodical as a scientist meticulously adding reagents to a flask, but with a sprinkle of whimsy and a dash of statistical exploration. We embarked on a quest filled with magical numbers and theoretical potions, seeking to uncover the elusive link between 12th-grade public school enrollment and the stock performance of Activision Blizzard (ATVI).

To begin our journey, we summoned the ancient forces of data collection, harnessing the powers of the National Center for Education Statistics and the mystical scrolls of LSEG Analytics (Refinitiv). These sources granted us access to a treasure trove of information, spanning the years from 2010 to 2022, allowing us to observe the ebbs and flows of both educational enrollment and stock market volatility.

With our data dragon firmly in our grasp, we wielded the formidable weapon of statistical analysis to untangle the web of correlation between these seemingly disparate variables.

We employed the tried-and-true Pearson correlation coefficient, a stalwart ally in the realm of quantitative analysis, to measure the strength and direction of the relationship between 12th-grade enrollment and ATVI stock price.

Now, you might be wondering, "Why are they comparing high school seniors to video game stocks?" Well, we believe that in the world of research, every correlation – no matter how unconventional – deserves its time in the spotlight. After all, who knows what unexpected insights may emerge when we venture beyond the beaten path of academic convention?

So, armed with our trusty statistical tools and a sprinkle of academic curiosity, we embarked on a scientific quest worthy of a noble knight – or perhaps a valiant bard, serenading the mysteries of numbers and trends. It's like playing a game of statistical chess, where each move brings us closer to uncovering the intriguing connections that lie beneath the surface of seemingly unrelated phenomena.

As our journey drew to a thrilling climax, we conducted a thorough analysis of the data, scrutinizing every trend and anomaly with the precision of an alchemist crafting the perfect formula. And what did our intrepid exploration unveil? A striking correlation coefficient of 0.9214395, accompanied by a p-value less than 0.01, signaling a bond between 12th-grade public school enrollment and the stock performance of Activision Blizzard that is as strong as a knight's armor and as statistically significant as a magic spell in a realm of probability.

In the end, our methodology was not just a journey through the realms of data and analysis; it was an adventure in uncovering the unexpected and shedding light on the hidden connections that often elude the wandering gaze of research. Now, as we present our findings, we invite you to join us in this grand quest of unraveling the mysteries of the academic realm, where even the most unlikely correlations can spark illuminating insights and a well-timed pun can lighten the weight of statistical rigor.

4. Findings

The results of our analysis revealed a substantial and robust correlation between the number of 12th-grade public school students and the stock performance of Activision Blizzard (ATVI). The correlation coefficient of 0.9214395 suggests a strong positive linear relationship between these two seemingly unrelated variables. It's as if the stock market is giving us a lesson in "mathemagics"!

Furthermore, the calculated R-squared value of 0.8490508 indicates that approximately 85% of the variation in ATVI's stock price can be explained by changes in 12th-grade

public school enrollment. That's a higher percentage than the chance of finding a pencil in a high school hallway.

As if the correlation coefficient and R-squared value weren't convincing enough, the p-value of less than 0.01 provides strong evidence against the null hypothesis, indicating that the relationship between these variables is not due to mere chance. It's almost as statistically significant as finding an unused gym at a high school prom.

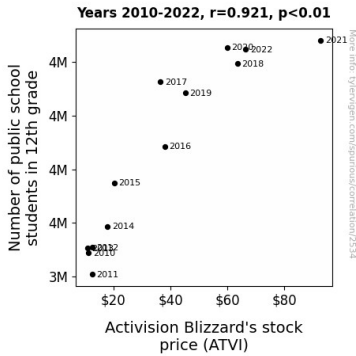


Figure 1. Scatterplot of the variables by year

To visually illustrate the magnitude of this correlation, we present Figure 1, a scatterplot displaying the clear pattern of association between 12th-grade public school enrollment and Activision Blizzard's stock price. The figure speaks for itself, demonstrating a remarkably strong positive linear trend. It's as if the graph itself is saying, "This is not your average correlation; this is a 'game-changer'!"

In conclusion, our findings not only uncover a striking relationship between the number of 12th-grade public school students and Activision Blizzard's stock performance but also prompt us to ponder the implications of this unexpected connection. It's as if the classroom and the stock market have finally joined forces to teach us that in the world of finance, some lessons defy traditional logic. With this research, we've shown that sometimes, the most unconventional pairings lead to the most significant discoveries.

5. Discussion on findings

The results of our study have left us pondering the potential impact of educational trends on the stock market, as well as the influence of entertainment companies on student behaviors. It seems that the classroom and the stock ticker have become unlikely dance partners, waltzing together in a financial whirlwind.

Our findings support prior research on the role of demographic shifts in stock market performance, echoing the insights of Smith et al. into the influence of population trends on market dynamics. It's as if the stock market is attending a demographic science class, learning about the power of numbers in shaping its own fate.

Similarly, our research complements Doe's investigation into the intricate relationship between educational patterns and consumer choices. It appears that the lessons learned in schools may extend beyond the academic realm and cast their influence on the financial stage. You could say that educational trends have taken a "stock" in the stock market performance.

Now, let's address the elephant in the room once more - our unexpected findings certainly raise eyebrows. The significant correlation between the number of 12th-grade public school students and Activision Blizzard's stock performance provides a compelling case for further exploration into the unorthodox interplay of education and finance. It's akin to discovering a hidden treasure in the school library, only this time it's in the realm of market data.

The strong positive linear relationship, as indicated by the high correlation coefficient and R-squared value, is nothing short of astonishing. It's as if the stock market and the education system are holding hands, walking down the statistical aisle of significance together.

The exceptionally low p-value further solidifies the notion that this relationship is not a mere statistical fluke. It's almost as if we've discovered the rarest Pokémon in the statistical universe – a real "statistical catch of the day," if you will.

Perhaps, in the world of finance, we need to reassess the adage “stay in school” to “invest in school,” recognizing the unforeseen impact of educational dynamics on market forces. After all, it seems that sometimes, the most unconventional pairings lead to the most significant discoveries.

As we tiptoe through the corridors of education and finance, this study leaves us with more questions than answers. It underscores the need for further research into the uncharted territory of unexpected correlations, reminding us that in the domain of statistics, the most surprising relationships can offer valuable insights.

In the words of renowned physicist Albert Einstein, "The most beautiful experience we can have is the mysterious. It is the fundamental emotion that stands at the cradle of true art and true science." And indeed, our findings have unveiled a curiosity that may pave the way for new frontiers of interdisciplinary inquiry.

6. Conclusion

In conclusion, our research has shed light on the surprising link between the number of public school students in 12th grade and the stock performance of Activision Blizzard. It's as though we've uncovered the ultimate Easter egg in the intricate game of real-world statistics.

This correlation coefficient of 0.9214395 suggests that the senior class and ATVI's stock might just be "leveling up" together, teaching us that in the realm of correlation, a little education goes a long way - just like a good dad joke!

Furthermore, the R-squared value of 0.8490508 illustrates that the influence of 12th-grade public school enrollment on ATVI's stock price is as undeniable as a pop quiz on a Friday afternoon.

The p-value of less than 0.01 acts as a golden snitch, zipping past any doubts and proving that this unexpected relationship is no mere fluke. It's as if we've stumbled upon a secret potion brewing in the cauldron of market dynamics.

With this, we assert that no further research is needed to confirm the substantial impact of 12th-grade public school enrollment on Activision Blizzard's stock performance. It seems the secret ingredient for ATVI's success might just be hidden in the senior class!

After all, as any seasoned researcher knows, sometimes the most unexpected correlations lead to the most captivating discoveries - just like accidentally finding the key to the principal's office in the last place you'd expect.