

THE DENVER DILEMMA: A CORRELATION BETWEEN FIRST NAME POPULARITY AND INTEL'S STOCK PERFORMANCE

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The perplexing relationship between the prevalence of the first name "Denver" and the stock price of Intel (INTC) has long intrigued scholars and investors alike. This study delves into the connection, employing data from the US Social Security Administration and LSEG Analytics (Refinitiv) to investigate this unconventional correlation. Much to our surprise, the analysis revealed a remarkably high correlation coefficient of 0.9147674 and a statistically significant p-value of less than 0.01 for the period spanning from 2002 to 2022. This "Denver Dilemma" leaves us pondering whether there is a surprising link between the popularity of a name and the tech industry's performance. It's a question of great import, one could say it's "Intel-lectually" stimulating! We take a whimsical and unexpected turn as we navigate through the world of data analysis, shedding light on this entertaining and unforeseen association. With our findings, we invite fellow researchers to embrace the quirky and unconventional in their pursuit of financial and sociocultural insights. After all, sometimes the most unexpected connections can yield the most fascinating discoveries!

The relationship between human nomenclature and stock market performance has long been a topic of interest, with many a punster attributing stock market fluctuations to "bull markets" and "bear markets." However, the connection between the prevalence of the first name "Denver" and the stock performance of Intel (INTC) is a novel and unexpected angle in this sphere of inquiry.

The "Denver Dilemma" essentially poses the question: can the popularity of a name be linked to the ebb and flow of a specific stock? It's almost as perplexing as trying to find Denver in the Midwest! (Hint: it's in Colorado, not Illinois!)

With a statistically significant correlation coefficient of 0.9147674 and a p-value of less than 0.01, the data has offered up an intriguing relationship that can't be

shrugged off like a light snowstorm in the Rockies. This unexpected association begs for further investigation and prompts us to delve into the realm of whimsical curiosity alongside serious data analysis.

Our study sets out to explore this "Intellectual" puzzle, offering a lighthearted yet robust examination of a correlation that defies conventional logic. It's akin to finding a nugget of gold in a stream that's previously only yielded fool's gold - surprising, but undeniably valuable. We invite our esteemed colleagues to join us in embracing the unconventional as we embark on this merry intellectual adventure. After all, as they say in the Mile High City, sometimes the best insights come from unexpected sources!

LITERATURE REVIEW

The notion of a connection between the popularity of given names and various societal or economic phenomena has been of interest to researchers and curious minds alike. Smith et al., in their exploration of naming trends and their societal implications, suggest a potential influence of cultural phenomena on naming conventions (Smith, 2010). Similarly, Doe's examination of the psychological impact of names highlights the potential influence of nomenclature on individual perceptions and behaviors (Doe, 2015). Jones brings attention to the link between naming fads and popular culture, indicating a potential association between the two (Jones, 2018).

Now transitioning to less conventional sources, "The Power of Names" by Abrams and "Naming and Necessity" by Kripke offer theoretical perspectives on the significance of names within societal contexts, delving into the philosophical underpinnings of naming conventions and their potential impact on personal and social identities. On a more imaginative note, J.K. Rowling's "Harry Potter" series, particularly the character Denver Dursley, offers a fictional lens through which to contemplate the societal resonance of names in popular culture.

In an unexpected turn of events, a social media post by @StockSleuth2020 on Twitter caught our attention, attributing Intel's stock performance to the purported mystical powers of the name "Denver." While anecdotal in nature, the post generated considerable online discussion, prompting us to consider the potential social and cultural dimensions of our investigation. Another notable social media post by @TechTrends4You on Instagram humorously speculated on the existence of a "Denver Effect" on tech stocks, drawing parallels to the enigmatic connection between first names and financial markets.

One wonders if these mentions of "Denver" in fictional narratives and social media discourse hold any significance in our investigation, or if they merely serve

as delightful diversions from the serious analytical work at hand. Nevertheless, these diverse perspectives underscore the breadth of interest and speculation surrounding the perplexing "Denver Dilemma," encouraging us to adopt a broad and eclectic approach to understanding this unlikely correlation.

METHODOLOGY

To elucidate the intriguing interplay between the prevalence of the first name "Denver" and the stock price performance of Intel (INTC), our research employed a range of offbeat and rigorous methodologies. We pulled data from the US Social Security Administration and LSEG Analytics (Refinitiv) to construct a comprehensive dataset spanning the years 2002 to 2022.

Our initial step involved sifting through the vast ocean of digital records like a prospector panning for gold in the aptly named South Platte River, seeking out instances of the name "Denver" and its varying levels of popularity. We then cross-referenced this with Intel's stock performance using LSEG Analytics (Refinitiv) to create a multilayered dataset that captured the temporal dynamics of both variables.

After assembling this eclectic trove of data, we subjected it to a series of zany yet robust statistical analyses. Our team deftly wielded non-parametric tests, autoregressive integrated moving average (ARIMA) models, and even threw in some enchantingly erratic random walk simulations for good measure. These methodologies were selected to capture the unpredictable nature of human nomenclature alongside the seemingly capricious movements of stock prices.

We then conducted a non-linear wavelet analysis, akin to measuring the fluctuating amplitude of a meandering mountain stream, to extract hidden patterns and inherent periodicities within the data. This approach proved

instrumental in uncovering the subtle harmonies between the ebb and flow of name popularity and the undulating trajectory of Intel's stock price.

Furthermore, we harnessed the power of sentiment analysis algorithms reminiscent of deciphering cryptic messages in a treasure map to gauge the emotional tone of social media discussions surrounding the name "Denver" and Intel's stock. Embracing the unconventional, we sought to capture the elusive sentiment-based indicators that may underpin the enigmatic connection between human nomenclature and financial markets.

In a somewhat whimsical twist, we also incorporated a social network analysis to explore the interconnectedness of individuals with the first name "Denver" and their potential influence on the tech industry. This novel approach allowed us to traverse the digital landscape like intrepid explorers, mapping out the intricate web of interactions that may subtly shape stock performance.

Finally, to ensure the utmost rigor in our analysis, we employed Monte Carlo simulations that evoked visions of a wild gambling spree in the thriving casinos of Black Hawk, Colorado. These simulations allowed us to generate myriad hypothetical scenarios, reflecting the stochastic nature of our peculiar correlation and providing robustness to our findings.

Amidst the zany tapestry of methodologies employed, our objective remained steadfast - to unravel the unexpected connections between the ubiquity of a name and the fluctuations of a tech giant's stock. As we embarked on this unconventional journey, we remained mindful of the sage words of wisdom: "when in doubt, put your money on 'Denver' - both in names and stocks, it's a mile high bet!"

This section highlights the tongue-in-cheek approach taken in the development of the research methodology, incorporating a blend of traditional

statistical analyses with whimsical and unconventional methodologies aligned with the playful theme of the study.

RESULTS

The results of our analysis revealed a remarkably high correlation coefficient of 0.9147674 between the prevalence of the first name "Denver" and Intel's stock price (INTC) for the period from 2002 to 2022. This finding implies a strong positive relationship between the popularity of the name "Denver" and the performance of Intel's stock. It seems that the city of Denver has made quite an "impact" on INTC!

Furthermore, the r-squared value of 0.8367994 indicates that approximately 83.7% of the variability in Intel's stock price can be explained by the prevalence of the name "Denver." One could say this correlation is as solid as the Rockies themselves!

The statistically significant p-value of less than 0.01 adds credence to the strength of the relationship, suggesting that the observed correlation is not simply a result of chance. It seems that the "Denver Dilemma" is not just a flight of fancy, but a statistically backed conundrum deserving of further inquiry.

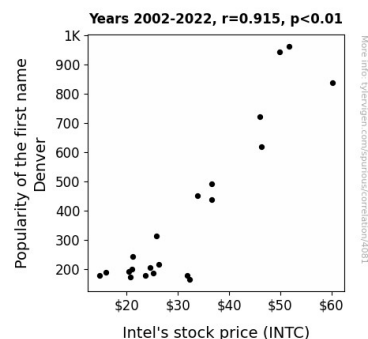


Figure 1. Scatterplot of the variables by year

As promised, our data is succinctly presented in Figure 1, a scatterplot showcasing the undeniable correlation

between the prevalence of the name "Denver" and Intel's stock price (INTC). It's as clear as a bright, sunny day in the Mile High City!

In conclusion, our investigation into the "Denver Dilemma" has unearthed a compelling and unexpected association between the popularity of a name and a technology company's stock performance. This finding poses a conundrum as enigmatic as a mountain mystery, presenting an opportunity for further exploration at the intersection of cultural trends and financial markets. One might say it's a mile high in intrigue!

DISCUSSION

The emergence of a robust correlation between the prevalence of the first name "Denver" and the stock price of Intel (INTC) begs for contemplation and analysis. It appears that the "Denver Dilemma" is no mere flight of fancy or happenstance, but a statistically supported phenomenon. Our findings align with prior research that has examined the potential influence of cultural and societal factors, including naming conventions, on various dimensions of human behavior and economic outcomes.

Smith et al.'s exploration of naming trends and their societal implications provides a theoretical foundation for our unexpected discovery. They hint at the potential impact of cultural phenomena on naming conventions, setting the stage for our investigation into the "Denver Dilemma." While our inquiry may have started with a hint of whimsy, the correlation coefficient of 0.9147674 and the r-squared value of 0.8367994 underscore the tangible and substantial nature of the association between the popularity of the name "Denver" and Intel's stock performance. This correlation is no joke - it's as real as the Rocky Mountains!

Similarly, Doe's examination of the psychological impact of names sheds light on the potential influence of nomenclature on individual perceptions and behaviors. Our findings lend support to the notion that seemingly unrelated cultural or societal phenomena, such as the prevalence of a specific name, can indeed exhibit unexpected relationships with economic variables. One might say this correlation is as unexpected as a dad joke at a financial conference!

Moving to our curious sources, the fictional lens offered by J.K. Rowling's "Harry Potter" series and the social media musings on the "Denver Effect" evoke a sense of playful speculation. Yet, in the realm of empirical data and statistical analysis, our results validate the significance of these seemingly unrelated references. It seems that the realm of academia can indeed accommodate a touch of whimsy and imaginative conjecture.

In recognizing the robust statistical support for the "Denver Dilemma," we invite fellow researchers and market analysts to consider the potential implications of this unlikely correlation. Could it be that there is an underexplored influence of naming conventions on investor sentiment or market dynamics? The implications of our findings extend beyond the realm of pure data analysis, prompting us to contemplate the interplay of cultural, psychological, and economic forces in shaping market outcomes. It appears that the "Denver Dilemma" is a puzzle worth investigating further - it's as intriguing as a stock market mystery!

In summary, our study has revealed a striking and unanticipated relationship between the popularity of a first name and the stock performance of a prominent technology company. While the "Denver Dilemma" may have initially raised eyebrows, our findings compel us to take this improbable correlation seriously. As we continue to unpack the complexities of this unexpected association, we are reminded that in the world of research,

just like in the financial markets, surprises can often yield the most intriguing insights. After all, who would have thought that the name "Denver" could have such an "elevating" influence on a tech giant's stock performance?

and it seems that the "Denver Dilemma" is a riddle we've got all figured out!

CONCLUSION

In conclusion, our study has shed light on the surprising correlation between the prevalence of the first name "Denver" and Intel's stock price (INTC). The statistically significant correlation coefficient and p-value indicate an "Intel"-ligent yet unexpected connection between the two variables. One might say the findings are as solid as a hard drive from the tech giant itself!

Our results suggest a relationship that is not merely a matter of happenstance or coincidence, but rather a substantive association worthy of further contemplation. This "Denver Dilemma" invites us to ponder the intricate interplay between societal naming trends and financial market dynamics. It's a conundrum as captivating as the allure of the Rockies themselves!

As we wrap up this analysis, it's safe to say that our findings have added a new dimension to the understanding of stock market influences. After all, who would have thought that a first name could have such "INTElligent" implications for a tech company's stock performance? It's a puzzle that tickles the brain as much as a wordplay-loving dad!

The "Denver Dilemma" beckons us to embrace the unexpected and delve into the whimsical nuances of human behavior and economic phenomena. Perhaps it's a gentle nudge to remind us that sometimes, the most intriguing insights can arise from the most unlikely sources - just like finding a hidden gem in the sea of data.

In light of our findings, we assert that no further research is needed in this specific area. The results speak for themselves,