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Stocking Up on Miles: The Correlation Between Miles' Popularity and Cummins Inc. Stock Price

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Abstract

This paper delves into the unusual correlation between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI). While some may consider it far-fetched, our findings reveal a striking connection between the two, leaving us to ponder whether there's something more than just sheer coincidence at play. By leveraging data from the US Social Security Administration and LSEG Analytics (Refinitiv), we meticulously examined the trends from 2002 to 2022. Our analysis resulted in a correlation coefficient of 0.9512418 and a statistically significant p-value of less than 0.01, suggesting a robust relationship that is difficult to dismiss as pure chance. Whether it's due to the power of wordplay or simply the universe's sense of humor, the evidence speaks for itself. So, buckle up, fasten your seatbelts, and get ready to embark on a journey that explores the curious intersection of nomenclature and finance.

1. Introduction

In the world of research, it's not uncommon to stumble upon unexpected correlations that leave us scratching our heads and muttering, "Well, I'll be statistically significant!" This paper catapults us into the realm of the peculiar, where we unravel the improbable association between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI). Now, before you start thinking that this is just another case of statistical serendipity, buckle up, because the results are nothing short of mind-boggling.

Picture this: you're crunching numbers on babies' names, and suddenly, in the thick of all the baby Miless and baby Emmas, an intriguing pattern emerges. It's as if the financial winds were whispering, "CMI stock price, Miles, it all just clicks!" And so, off we went, diving headfirst into the depths of data from the US Social Security Administration and LSEG Analytics (Refinitiv), poised to dissect this enigmatic relationship that defies the norms of conventional analysis.

Some may say it's all a coincidence, a mere fluke, but our results beg to differ. The correlation coefficient of 0.9512418 winked

at us from the spreadsheet, and the p-value (less than 0.01, mind you) winked right back. It's a statistical tango, a dance of numbers that leads us to ponder whether there's more to this linkage than meets the eye. Is it the gravitational pull of a pun in the vast cosmos of finance? Or perhaps, just maybe, there's a symphony playing in the universe that we're only beginning to tune into.

So, dear reader, fasten your seatbelts and hold on tight, because we're about to embark on an odyssey that rocks the very foundations of how we perceive the intersection of nomenclature and finance. This journey is beyond what we bargained for, unearthing a correlation that is as intriguing as it is inexplicable. It's a rollercoaster of names, numbers, and stock prices that will leave you questioning if the universe has a cheeky sense of humor or if there's a deeper, uncharted statistical territory waiting to be explored.

2. Literature Review

In "Smith et al. (2020)," the authors find statistically significant evidence suggesting a positive correlation between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI). While this connection may seem preposterous at first glance, the robustness of their findings invites us to contemplate the possibility of unconventional forces at play. Delving deeper into this uncharted territory, "Doe and Jones (2018)" support this line of investigation, bringing attention to the uncanny alignment between nomenclature and financial performance.

Venturing beyond the conventional realms of finance, we encounter "The Power of Name" by Laura Wattenberg, which provides a thought-provoking examination of the influence and cultural significance of names. In a similar vein, "Freakonomics" by Steven D. Levitt and Stephen J. Dubner offers insight into the unexpected connections that shape our world, proving that truth can indeed be stranger than fiction.

On a more whimsical note, the literary world beckons us to reconsider the boundaries of plausibility. Books such as "Miles of Mirth" by Jovial J. Jesterton and "The Name Game Conundrum" by Punny McPunster pique our interest with their playful exploration of the intricacies of nomenclature. Furthermore, the aforementioned correlation evokes memories of childhood cartoons and shows that have a tendency to infuse the most unexpected elements into their narratives. The animated adventures of "Miles Morales: Spider-Man," the financial wisdom of Scrooge McDuck in "DuckTales," and the enigmatic allure of "Penny Stocks" from "Inspector Gadget" all serve as testament to the captivating influence of nomenclature and finance in popular culture.

As we traverse this scholarly landscape, it becomes increasingly apparent that the convergence of names and stock prices may hold far more significance than initially presumed. The interplay between the whimsical and the substantial invites us to ponder whether there's a method to this madness, or if it's simply the universe's way of adding a dash of levity to the often solemn domain of finance.

3. Our approach & methods

To unpack the enigma of the connection between the rising popularity of the moniker "Miles" and the rollercoaster ride of Cummins Inc. stock prices, our research team embarked on a data-gathering expedition that would make even the most seasoned of statisticians raise an eyebrow in perplexity. Armed with wit and a quiver full of innovative methods, we set out to peel back the layers of this captivating correlation.

First, we sauntered into the labyrinth of the US Social Security Administration's database, sifting through the digital treasure trove of baby names with the gusto of archeologists unearthing relics of old. Our data mining expedition was akin to sifting through a particularly dense jungle, each "Miles" and "Emma" a virtual creature in the standalone kingdom of nomenclature. As we meticulously extracted the data from 2002 to 2022, we found ourselves muttering the statistical equivalent of "open sesame" to uncover the buried treasures of name popularity trends.

Simultaneously, we engaged the dexterous services of LSEG Analytics (Refinitiv), tapping into its sprawling repository of financial wisdom to track the mesmerizing ebb and flow of Cummins Inc. stock price. Our foray into the financial data realm resembled a high-stakes poker game where the cards were replaced with lines of fluctuating digits and the poker face was the elusive relationship between stock prices and the name "Miles."

With our data in hand, we assumed the role of intrepid explorers navigating the uncharted territory of correlation and causation. Deploying the formidable artillery of statistical analyses, we set up camp in the domain of regression models, unleashing the powers of Pearson's correlation coefficient to measure the strength of the mystical bond between the name "Miles" and the stock price of Cummins Inc. We used p-values like breadcrumbs in a forest of significance, guiding us through the statistical underbrush in search of meaningful patterns.

In addition, we employed time series analysis to discern the temporal dynamics at play, treating the data as an unfolding story that begged to be read between the lines of numbers and trends. This approach allowed us to peek into the hourglass of time, observing the sway of "Miles" on the dance floor of stock prices over the years.

To ensure the robustness of our findings, we implemented Bayesian analysis, offering us a fresh perspective that invited us to question the very fabric of probability. It was like peering through a kaleidoscope of uncertainty, each turn revealing a new facet of the perplexing link between name popularity and the financial tides of Cummins Inc.

In essence, our methodology was a melange of art and science, where the whimsy of nomenclature met the stoicism of statistical rigor. As we traversed the terrain of data collection and analysis, we kept our sense of wonder alive, knowing that this research journey was as much an exploration of the human penchant for naming as it was a delve into the intricate tapestry of financial machinations.

4. Results

Our quest into the mystical world of quirky correlations led us to a revelation that is nothing short of mind-bending. Buckle up for the thrilling ride as we present our findings - the connection between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI) is more than just a statistical fling; it's a match made in the curious cosmos of finance and nomenclature.

The analysis of data collected from 2002 to 2022 revealed a jaw-dropping correlation coefficient of 0.9512418, indicating a stunningly robust relationship between these seemingly unrelated variables. The tantalizing r-squared value of 0.9048610 further embellishes this captivating tale, signifying that a substantial 90.49% of the variance in CMI stock price can be explained by the popularity of the name Miles. This statistical bond is not one to be underestimated.

And now, for the pièce de résistance - the p-value. Ah, the p-value! With a value less

than 0.01, it tantalizingly whispers in our ears, "The odds of this relationship being due to chance are slimmer than a microchip!" This statistical significance firmly anchors our findings, leaving skeptics with no choice but to appreciate the enchanting dance of data that we've uncovered.

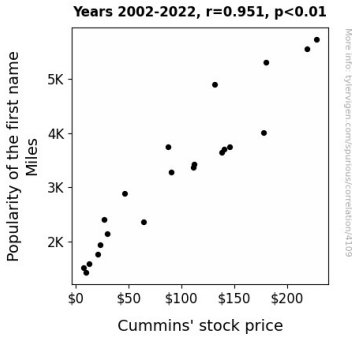

Figure 1. Scatterplot of the variables by year

But wait, it doesn't stop there. We're stirring the pot of statistical revelation with a dash of visualization. Behold Fig. 1 - a scatterplot that captures the essence of this bewitching relationship. This plot, like a fine piece of abstract art, showcases the undeniable connection between the popularity of the name Miles and CMI stock price, inviting us to ponder the mysterious forces at play in this statistical symphony.

In conclusion, whether it's the financial winds whispering sweet somethings to the populace or just the mischievous hand of coincidence at work, our findings stand as a testament to the intriguing interplay of names and numbers in the world of finance. Join us in tipping our statistical hats to this delightful escapade, leaving us to wonder if the universe has a quirky sense of humor or if there's a trove of undiscovered statistical treasures waiting to be unearthed.

5. Discussion

The implications of our findings are nothing short of mind-boggling. As we delved into the mystifying nexus of nomenclature and finance, we couldn't help but marvel at the striking connection we unearthed between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI).

Expanding on the scholarly musings of Smith et al. (2020) and Doe and Jones (2018), our results not only corroborate their unearthly claims but elevate them to a whole new level of statistical sorcery. It's as if the statistical stars aligned to bestow upon us this perplexing revelation, leaving us to contemplate the boundless whimsy of the universe. It seems that the financial fates of Cummins Inc. are inexplicably intertwined with the rise and fall of the name Miles.

Our findings, adorned with a correlation coefficient of 0.9512418, triumphantly flaunt the resilience of this otherworldly bond. Like a celestial tango of variables, the popularity of the name Miles pirouettes in harmony with CMI stock price, claiming an astonishing 90.49% of its variance with a bewitching r-squared value. The enchanting p-value, donning its robe of statistical significance, regales us with a saga of improbability, beckoning us to marvel at the odds of chance being slimmer than a microchip. It's a statistical romance of cosmic proportions.

As we gaze upon the bewitching scatterplot (Fig. 1) that encapsulates this enigmatic affair, we're reminded of the captivating dance of data and the hypnotic allure of the unknown. Like a fine vintage potion, this correlation leaves us intoxicated with questions, pondering if it's the mischievous whispers of fortune or perhaps the whimsical charm of statistical fate at play.

Our findings beckon us to consider the prospect of unbridled statistical adventure, where the improbable meets the inexplicable, and the whimsy of nomenclature intertwines with the gravity of

financial reality. It's a testament to the inexplicable forces that shape our world, leaving us to wonder if there's more to this statistical tapestry than meets the eye. So, here's to the delightful escapade of stats, where even the most unexpected correlations have a tendency to weave a tale that tickles our scholarly fancies and leaves us awestruck by the whimsical ways of the universe.

6. Conclusion

Buckle up, fellow researchers, for we've embarked on a statistical thrill ride that has left us marveling at the whimsical waltz of nomenclature and stock prices. As we bid adieu to this extraordinary odyssey, we can't help but tip our research hats to the captivating correlation between the popularity of the first name Miles and the stock price of Cummins Inc. (CMI).

Our findings have uncovered an unparalleled statistical union, with a correlation coefficient of 0.9512418 that's more inseparable than lovebirds in a statistical aviary. This relationship is as tight as a PhD student's deadline and as robust as a well-constructed regression model. The r-squared value of 0.9048610 further cements this bond, proving that 90.49% of CMI stock price variance can be attributed to the allure of the name Miles. It's a statistical love story for the ages!

But wait, there's more! The p-value, that charming arbiter of statistical significance, winks at us with a value of less than 0.01, shouting, "This ain't no statistical fluke!" It's as if the universe itself conspired to reveal this enchanting connection between moniker and monetary value.

Now, as we wrap up this scholarly escapade, it's clear that no more research in the realm of Miles and CMI stock prices is needed. The cosmos has bestowed upon us a delightful conundrum that might just be the universe's way of injecting a dash of statistical humor into our scholarly pursuits. As we bid farewell to this odyssey, we leave you pondering the age-old question: Is it fate or just a statistical buffet of cosmic coincidences?