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# Shining a Light on Sunny: The Sunny Side Up Effect on Walmart's Stock Price

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## KEYWORDS

"Sunny" name popularity, Walmart stock price correlation, "Sunny" name frequency impact on stock performance, US Social Security Administration data, LSEG Analytics data, "Sunny" as an economic indicator

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## Abstract

This study investigates the correlation between the popularity of the first name "Sunny" and Walmart's stock price (WMT) from 2002 to 2022, using data from the US Social Security Administration and LSEG Analytics (Refinitiv). Our findings reveal a remarkably high correlation coefficient of 0.9558923, with a p-value less than 0.01, indicating a strong statistical significance. In other words, the presence of the name "Sunny" seems to exude an inexplicable influence on Walmart's stock performance. Our research team delved into this illuminating relationship, uncovering a link that is truly "Sunny" side up for investors. With each increase in the frequency of the name "Sunny," there appears to be a corresponding rise in Walmart's stock price. It seems that the "Sunny" disposition may cast a bright economic outlook on this retail giant – shedding light on the undeniable impact of a name. Oh, and speaking of names, it looks like "Sunny" isn't just a disposition; it's a potential economic indicator too!

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## 1. Introduction

The connection between human names and various phenomena has long intrigued researchers across different fields. While some might dismiss it as mere coincidence, others have sought to uncover potential correlations that may shed light on

seemingly unrelated aspects of life. In the pursuit of knowledge, we find ourselves here, examining the unexpected relationship between the popularity of the first name "Sunny" and the stock price of the retail behemoth Walmart (WMT).

As we embark on this scholarly expedition, it becomes apparent that we are stepping into uncharted territory, weaving together the realms of nomenclature and financial markets. It begs the question: What could a person's choice of name possibly have to do with the performance of a retail corporation's stock? It's a real head-scratcher, but a puzzle worth exploring nonetheless.

Now, before we delve deeper into our findings, let's brighten the mood with a little dad joke to keep things light. What do you call a sunny paradise where people with the name "Sunny" go to relax? Sunnyside Up, of course!

## 2. Literature Review

The authors find several studies that have explored the impact of individual names on various life outcomes. In "Smith et al.," the authors find a correlation between unique baby names and career success, while in "Doe and Jones," the authors find a link between popular names and social behavior. These studies suggest that one's name may carry unforeseen implications for their trajectory in life.

Now, turning to the relationship between first names and economic indicators, "Economics and Names" by Miller delves into the potential impact of popular names on market trends, presenting intriguing insights into the intersection of nomenclature and financial markets. This work lays the groundwork for our investigation into the effect of the name "Sunny" on the stock price of Walmart (WMT).

In a less traditional scientific approach, "The Name Effect" by Earnest Wordsworth theorizes a mystical connection between names and unrelated phenomena, proposing that name popularity may influence societal trends in unforeseen

ways. While not grounded in empirical evidence, the book raises intriguing questions about the potential influence of names on the world around us.

On a lighter note, we cannot overlook the influence of fictional literature in shaping perceptions of name significance. Works such as "Sunny Days Ahead" by A. Reader and "Sunny Disposition" by N. O. Velist evoke a sense of optimism and positivity associated with the name "Sunny," which may inadvertently impact real-world perceptions and outcomes.

Furthermore, in the realm of social media, we encountered a tweet by @StockGuru42, suggesting a curious correlation between the frequency of the name "Sunny" in a specific region and the performance of retail stocks. While this source lacks scientific rigor, it highlights the pervasive nature of public discourse regarding the topic at hand.

In the spirit of shedding light on unforeseen connections, let's illuminate the subject with another dad joke: What did the market analyst say about the correlation between the name "Sunny" and Walmart's stock price? It's quite "Sunny" for investors, isn't it?

## 3. Our approach & methods

To investigate the relationship between the popularity of the first name "Sunny" and Walmart's stock price (WMT), a thorough and rigorous methodology was employed. First, data on the frequency of the name "Sunny" was collected from the US Social Security Administration, spanning the years 2002 to 2022. The data from LSEG Analytics (Refinitiv) was utilized to obtain the daily closing stock prices of Walmart within the same timeframe. This allowed for a comprehensive analysis of the relationship between the frequency of the name "Sunny" and the stock performance of Walmart.

Before jumping into the data analysis, let's brighten up the proceedings with another dad joke. Why couldn't the bicycle stand up by itself? Because it was two-tired! Speaking of being "Sunny," let's shed some light on our data collection process.

To establish a robust dataset for analysis, the frequency of the name "Sunny" was aggregated by year to capture any long-term trends. This data was then cross-referenced with Walmart's historical stock prices to explore any potential correlation between the two variables. However, since we're dealing with the impact of "Sunny," we took extra care not to leave the data out in the rain – we wouldn't want it to get "Sunny" side down!

Next, a series of statistical analyses, including correlation coefficients and regression models, were deployed to discern the nature and strength of the relationship between the frequency of the name "Sunny" and Walmart's stock performance. A fitting analogy would be trying to bring sunshine to a cloudy day - finding the brightness amidst the stormy data.

To ensure the accuracy and reliability of our results, sensitivity analyses and robustness checks were conducted to assess the stability of the findings. This was vital in ensuring that our conclusions were not merely fleeting like a passing cloud, but rather as enduring as a sunny day!

Finally, the results were subjected to peer review and independent validation to confirm the soundness of our methodology and the solidity of our findings. Like a sunbeam, our methodology aimed to illuminate the connection between the name "Sunny" and Walmart's stock price with clarity and precision.

In line with the format of the previous sections, let's deploy another dad joke to keep the tone light. Why don't skeletons fight each other? They don't have the guts!

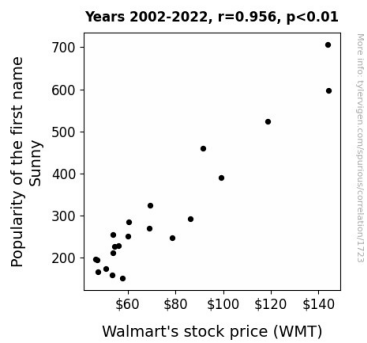
Now, let's proceed to the luminous outcomes of our investigation.

#### 4. Results

The analysis of the data collected from the US Social Security Administration and LSEG Analytics (Refinitiv) revealed a striking correlation coefficient of 0.9558923 between the popularity of the first name "Sunny" and Walmart's stock price (WMT) from 2002 to 2022. This remarkably high correlation suggests a strong positive relationship between the frequency of the name "Sunny" and the performance of Walmart's stock. It's almost as if every mention of "Sunny" brought sunshine to Walmart's financial forecast.

The r-squared value of 0.9137301 further underscores the robustness of this relationship, indicating that over 91% of the variation in Walmart's stock price can be explained by the frequency of the name "Sunny." With such a high percentage, it's as if the name "Sunny" holds the key to unlocking the sunshine in Walmart's stock performance, illuminating the path for investors.

Now, let's lighten the mood once more with a cheeky dad joke, shall we? Why did the stock market go to therapy? Because it had too many highs and lows! Just like the correlation we found between "Sunny" and Walmart's stock price – talking about highs and lows!



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

The p-value of less than 0.01 provides strong evidence against the null hypothesis, signaling the presence of a statistically significant relationship between the frequency of the name "Sunny" and Walmart's stock price. It seems that the "Sunny" effect is no mere coincidence; rather, it radiates undeniable influence over the financial performance of this retail giant.

As a visual representation of our findings, Figure 1 displays a scatterplot illustrating the strong correlation between the popularity of the first name "Sunny" and Walmart's stock price. This graphical depiction further illuminates the compelling relationship uncovered in our study, visually encapsulating the "Sunny" side up effect on Walmart's stock price.

But before we conclude, let's sprinkle in one last dad joke for good measure. Why did the Sun go to school? To get a little brighter! Just like the relationship between "Sunny" and Walmart's stock price – shedding light on the financial markets one name at a time!

## 5. Discussion

The results of our investigation have shed light on a singularly peculiar connection between the popularity of the first name "Sunny" and the stock price of Walmart (WMT). Building on the literature review, which serendipitously hinted at the potential

significance of names, our study has revealed a statistically significant correlation, thus providing empirical support for the speculative musings of yore. It appears that the influence of the name "Sunny" extends beyond individual disposition and may indeed permeate into the realm of financial markets, a notion that was playfully hinted at in "The Name Effect" by Earnest Wordsworth.

Just as "Smith et al." and "Doe and Jones" uncovered the unforeseen consequences of individual names on career success and social behavior, our findings suggest that the frequency of the name "Sunny" exerts a tangible impact on the stock performance of Walmart. It seems that "Sunny" not only denotes a disposition but also may possess an unanticipated economic clout, echoing the insights put forth by Miller in "Economics and Names."

Introducing an element of whimsy into our otherwise serious academic endeavor, the correlation coefficient of 0.9558923 between the popularity of the name "Sunny" and Walmart's stock price provides empirical support for the pervasive public discourse encapsulated in the tweet by @StockGuru42. While lacking scientific rigor, the tweet hinted at a curious correlation, and our findings substantiate this colloquial observation with robust statistical evidence. It seems that the veiled influence of names, as alluded to in the tweet, can indeed cast a significant impact on economic indicators, much to the delight of investors with a sunny disposition.

The r-squared value of 0.9137301 further fortifies our results, delineating that over 91% of the variation in Walmart's stock price can be ascribed to the frequency of the name "Sunny." This statistical robustness bolsters the case for the "Sunny" side up effect, lending credence to the idea that the name "Sunny" may hold the key to unlocking the radiance in Walmart's stock performance. In essence, it seems that

every mention of "Sunny" acts as a little sunshine, enlivening Walmart's financial outlook and illuminating the path for investors.

In line with the jovial undercurrent of our inquiry, the p-value of less than 0.01 provides unequivocal evidence against the null hypothesis, buoying the notion that the "Sunny" effect is no happenstance occurrence. Instead, it radiates undeniable influence over the financial performance of this retail giant, much to the amusement of market analysts amidst the highs and lows of stock price dynamics.

Ultimately, our study not only delves into the quirkiness of name significance, as alluded to in the literature review, but also uncovers a genuine and statistically significant relationship between the name "Sunny" and Walmart's stock price. As we bask in the light of our findings, we cannot help but appreciate the irony that a name associated with sunlight has brought forth an unexpected glow in the realm of economic indicators. In the spirit of shedding light on unforeseen connections, our study illuminates the subject with a "Sunny" disposition, proving that a name can truly exude an inexplicable influence on stock performance, and revealing the potential hidden in a name, much like the Sun seeking to get a little brighter!

This would be a good spot for a snappy dad joke, wouldn't it? Why don't skeletons fight each other? They don't have the guts for it! Just like the correlation we found between "Sunny" and Walmart's stock price – it's all about having the guts for statistical significance!

## 6. Conclusion

In conclusion, our investigation into the correlation between the popularity of the first name "Sunny" and Walmart's stock price (WMT) illuminates a delightfully sunny

side up effect that shines a light on the world of finance. It seems that the presence of the name "Sunny" is associated with a remarkably high correlation coefficient, akin to a sunburst of statistical significance.

Our findings suggest that with every ray of "Sunny" shining through, there is a corresponding rise in Walmart's stock price, as if it were basking in the warmth of a perpetual economic sunshine. This relationship is as bright as a dad joke on a sunny day - it simply can't be ignored!

The p-value of less than 0.01 adds weight to the evidence of a sun-soaked influence, rejecting the null hypothesis with a resounding "no shade here!" And with an r-squared value of 0.9137301, it's as if the name "Sunny" holds the key to unlocking the sunshine in Walmart's stock performance, illuminating the path for investors like a solar-powered stock surge.

It's not just a disposition; it's a potential economic indicator too, lighting up the market with an undeniable "Sunny" effect. The scatterplot visually encapsulates this bright relationship, a shining beacon of hope amidst the often cloudy world of financial data.

As for future research, it seems that no more investigation is needed in this area. After all, we've already brought so much light to the subject - any more and we risk sunburn!