Checking in at the Inn: The Relationship Between the Count of Hotel Managers in Vermont and Amazon's Shipping Gains

Chloe Hoffman, Addison Tate, George P Trudeau

Abstract

Have you ever pondered the potential link between managing a hotel in Vermont and Amazon's shipping revenues? Well, fret no more, as our research dives into this quirky connection. Utilizing data from the Bureau of Labor Statistics and Statista, we uncovered a surprising correlation between the number of hotel managers in the picturesque state of Vermont and the behemoth that is Amazon's shipping revenue. Despite the skepticism that may arise, our findings reveal a rather robust correlation coefficient of 0.8815298 with p < 0.01 between 2006 and 2016. Join us on this whimsical journey as we unpack the unforeseen relationship between hospitality management and e-commerce shipping empires.

1. Introduction

As a wise person once said, "Life is a journey, not a destination." And indeed, our journey of academic inquiry has brought us to the unlikely intersection of hotel management in Vermont and Amazon's shipping magnificence. Who would have thought that the charming world of bed linens and check-ins could possibly intertwine with the colossal domain of cardboard boxes and Prime deliveries?

In the realm of research, one often embarks on a quest to unravel the mysteries of the universe, uncover hidden truths, and of course, to answer questions no one thought to ask. And in the grand tradition of such quirky scientific pursuits, we found ourselves compelled to explore the curious relationship between the number of hotel managers in the Green Mountain State and Amazon's monumental shipping revenue. This endeavor involved diving deep into the data, navigating the treacherous waters of statistics, and occasionally pausing to ponder the whimsical nature of our pursuit.

The rationale behind our investigation was not merely born out of academic curiosity, but also out of a shared fascination with the unexpected, the unorthodox, and the downright peculiar. And what better way to light up the sometimes monotonous world of research than to shine a spotlight on an association that at first glance seems as likely as a penguin in the Sahara? So, dear reader, fasten your seatbelts (or perhaps in this case, secure your hotel reservations) as we venture forth into the uncharted territory where the hospitality sector meets mammoth e-commerce. Together, we shall navigate through the maze of data, unveil the underlying patterns, and maybe even crack a few unexpected jokes along the way. After all, what's a research paper without a sprinkle of scientific absurdity?

2. Literature Review

The investigation into the intriguing relationship between the number of hotel managers in Vermont and Amazon's shipping revenue leads us to peruse the scholarly works of Smith, Doe, and Jones. In "The Journal of Hospitality Management," Smith et al. delve into the intricacies of hotel operations, shedding light on the challenges and triumphs of hospitality management in various geographic contexts. Similarly, Doe's seminal piece in "The Strategic Management Journal" offers insights into the strategies employed by e-commerce giants like Amazon to dominate the shipping industry. Furthermore, Jones's comprehensive analysis in "The Journal of Business Logistics" explores the logistics and supply chain management practices that underpin Amazon's shipping prowess.

Turning our attention to non-fiction books, "The Art of Hospitality" by John Smithson and "Logistics and Supply Chain Management" by Martin Christopher provide valuable perspectives on the hotel management and shipping logistics domains. On the fictional side, "The Grand Hotel" by Scott Fitzgerald and "The Shipping News" by Annie Proulx offer imaginative portrayals of the hospitality industry and maritime activities, albeit in vastly different contexts.

To gain a more comprehensive understanding of the cultural and operational aspects of hotel management, our research delved into TV shows such as "Hotel Hell" and "The Grand Tour." While not directly related to the topic at hand, these programs offered entertainment and perhaps a hint of inspiration for our offbeat exploration.

Now, as we embark on this scholarly voyage, we cannot discount the sheer whimsy of venturing into

uncharted waters where the impeccable service of a quaint Vermont inn intermingles with the frenetic world of Amazon's shipping juggernaut. What awaits us in this quirky correlation may be as unexpected as a bellhop moonlighting as an Amazon Prime delivery driver or a concierge offering expedited shipping for weary travelers. So, hold onto your room keys, dear reader, as we navigate through the labyrinth of literature and emerge with a freshly laundered understanding the of bizarre interconnectedness between seemingly these disparate realms.

3. Methodology

To uncover the enigmatic link between the number of hotel managers in quaint Vermont and the formidable shipping dominion of Amazon, our research team embarked on a quest that would make even the bravest of statistical adventurers quiver in their lab coats. Our dataset, sourced from the Bureau of Labor Statistics and Statista, served as our treasure map, guiding us through the labyrinthine corridors of data from 2006 to 2016, all in pursuit of the elusive correlation between these seemingly incongruous variables.

First, we indulged in the ancient art of data wrangling, skillfully extracting the number of hotel managers in Vermont from the clutches of spreadsheets and databases. With practiced hands, we combed through the digital underbrush, ensuring that no outlier or imposter sneaked into our calculations.

Next, armed with an arsenal of statistical weaponry, we pitted the count of hotel managers against Amazon's shipping revenue in a battle of coefficients and significance levels. Our trusty Pearson correlation coefficient and its loyal companion, the p-value, stood guard as we scrutinized the relationship between these disparate elements, seeking to unveil the hidden dance of numbers beneath the surface.

As any seasoned researcher knows, no quest is complete without a pilgrimage to the temple of regression analysis. Here, we beseeched the mighty gods of statistical modeling to reveal to us the nature and strength of the association between the number of hotel managers in Vermont and Amazon's shipping revenue, using a variety of regression techniques to decipher their cryptic messages.

To ensure the robustness of our findings, we performed sensitivity analyses, manipulating the variables with the finesse of a magician weaving spells, in order to test the stability and reliability of our results. Additionally, we took great care to address any lurking potential confounders that threatened to cast a shadow of doubt over our conclusions, employing covariates as talismans to ward off spurious correlations.

Finally, after emerging from the dense thicket of data analysis, we presented our findings with the measured confidence of explorers unveiling a long-lost treasure. Our results, bearing the seal of statistical significance and empirical rigor, paint a vivid portrait of the intriguing relationship between the number of hotel managers in Vermont and the staggering ascent of Amazon's shipping revenues. And like any good explorer, we can't help but marvel at the unexpected sights and sounds we encountered along the way.

So, dear reader, hold on to your hats (or your bellhop's cap), as we journey into the heart of this captivating correlation, armed with nothing but the tools of research and a healthy dose of scientific whimsy.

4. Results

Upon donning our metaphorical Sherlock Holmes hats and delving into the depths of our data, we uncovered a correlation coefficient of 0.8815298 between the number of hotel managers in Vermont and Amazon's shipping revenue in millions of dollars. As any seasoned researcher can attest, this correlation is about as substantial as a towering stack of Amazon delivery boxes at your front door.

The r-squared value of 0.7770949 further solidifies the robustness of this relationship, suggesting that approximately 77.71% of the variation in Amazon's shipping revenue can be explained by the number of hotel managers in Vermont. It's almost as if the correlation between these two variables is as crystal clear as an Amazon Echo's sound quality. But wait, there's more! With p < 0.01, our findings are statistically significant, meaning that the likelihood of this correlation occurring by mere chance is about as remote as finding a unicorn in your backyard. It's safe to say that this correlation has passed the scientific sniff test with flying colors.



Figure 1. Scatterplot of the variables by year

To further illustrate this unexpected connection, we present Fig. 1, a scatterplot that graphically depicts the strong positive correlation between the count of hotel managers in Vermont and Amazon's shipping revenue in millions of dollars. It's a visual feast for the eyes, much like stumbling upon an unexpectedly whimsical artwork in a prestigious art gallery.

In conclusion, our results suggest that there exists a surprisingly strong and statistically significant association between the number of hotel managers in Vermont and Amazon's shipping revenue. It's as if the world of Swiss cheese and the e-commerce giant decided to have a delightful tango, leaving us all quite bemused and intrigued.

5. Discussion

Well, folks, buckle up because we're about to dive into the wacky world of hotel managers and Amazon's shipping revenue. Our results have led us down a rabbit hole filled with surprising correlations and statistical shenanigans. It seems that the innkeepers of Vermont may be more influential on the e-commerce shipping behemoth than we ever imagined.

Our findings align with the previous research that hinted at the intertwining of hospitality management

and shipping empires. Smith's work on hotel operations prepares us for the surprising revelation that the number of hotel managers in Vermont can impact the shipping revenue of Amazon. It's like finding a hidden compartment in your suitcase that's filled with statistical significance.

Doe's insights into the strategies of e-commerce giants take on a whole new dimension when we consider the role of Vermont's lodging luminaries in fueling Amazon's shipping gains. It's as if the strategies and tactics of these two seemingly separate industries have engaged in a clandestine collaboration that even Sherlock Holmes would have trouble unraveling.

Furthermore, Jones's analysis of logistics and supply chain management sheds light on the unexpected dance of data points, leading to our discovery of an astonishingly high correlation coefficient. It's like witnessing a ballet performance where the dancers are hotel managers and Amazon's shipping revenue, gracefully pirouetting in statistical harmony.

Now, I know what you're thinking - the connection between hotel managers in Vermont and Amazon's shipping revenue may seem as improbable as a unicorn sighting. But our results, with their robust correlation coefficient and impressive level of significance, defy the odds like a superhero defying the laws of physics.

Our research has opened a pandora's box of peculiar pairings, where the quaint charm of a Vermont inn resonates through the booming halls of Amazon's shipping empire. It's almost as if the data points themselves have conspired to pull off the ultimate statistical magic trick, leaving us in awe of the whimsical interconnectedness of these unassuming variables.

As we continue to unravel the mysteries of this peculiar relationship, it's becoming increasingly clear that the world of statistical analysis is a treasure trove of unexpected connections and improbable pairings. Just when you think you've seen it all, along comes a correlation coefficient that challenges your assumptions and tickles your scientific curiosity.

So, dear reader, join us as we navigate this enchanting labyrinth of correlations and causations,

where the charm of hotel management in Vermont meets the unstoppable force of Amazon's shipping revenue. It's a journey that promises to keep us on our toes, much like a delightful dance between two unlikely partners in the grand ballroom of statistical serendipity.

6. Conclusion

In wrapping up our whimsical escapade through the land of statistical oddities, it is abundantly clear that the relationship between the number of hotel managers in Vermont and Amazon's shipping revenue is as real as the science behind wearing socks with sandals - shocking, yet undeniably present. Our findings have unveiled a correlation coefficient so robust, it could rival the strength of a sumo wrestler. The r-squared value further solidifies this intriguing connection, painting a picture as vivid as a Bob Ross masterpiece.

The statistically significant correlation, with a likelihood of occurring by mere chance as remote as stumbling upon a unicorn at a Renaissance fair, speaks volumes. Our data, much like a magician's reveal, has left us all in awe at the unexpected union of hospitality and e-commerce.

With that said, it seems that our exploration of this peculiar relationship has reached its crescendo. The odds of stumbling upon another correlation quite as fascinating as the one we've unearthed here are about as likely as winning the lottery while being struck by a meteor. It's safe to assert that no further research in this area is needed, for we have unraveled a mystery worthy of a Sherlockian tale. With this, we bid adieu to our quirky investigation, leaving the scientific community with a newfound appreciation for the quirks and surprises that hide within the realm of research.

And remember, fellow researchers, always expect the unexpected - you never know when you might stumble upon a statistical unicorn!