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CHECKING IN ON THE RELATIONSHIP BETWEEN HOTEL MANAGERS IN VERMONT AND GOOGLE SEARCHES FOR PRACTICAL ENGINEERING: A QUIRKY CORRELATION?

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In this study, we delved into the intriguing intersection of hotel management in Vermont and online searches for practical engineering. While at first glance these two topics may seem unrelated, our research unearthed a surprising connection that would make even the most discerning statisticians raise an eyebrow. Armed with data from the Bureau of Labor Statistics and Google Trends, we set out to uncover whether the number of hotel managers in the picturesque state of Vermont has any influence on the frequency of Google searches for practical engineering. And boy, did we find some interesting results! Employing a correlation coefficient of 0.7484576 and p < 0.01 for the years 2007 to 2022, our findings suggest a statistically significant relationship between the two variables. It seems that as the population of hotel managers in Vermont swelled, so too did the interest in practical engineering on the world wide web. Perhaps people were seeking practical solutions to structural challenges in hotel renovations, or maybe they were just daydreaming about a career change while booking their next mountain getaway. It's quite the head-scratcher, but certainly an amusing one. While causation cannot be inferred from correlation alone, our study provides an intriguing starting point for future investigations into the peculiar interplay between hospitality management and the allure of practical engineering. As we continue to unravel the mysteries of these unexpected connections, we remain ever vigilant for more opportunities to unearth correlations that leave us saying, "Well, isn't that suite?

Welcome, fellow researchers and curious minds, to our examination of the amiable yet enigmatic connection between the number of hotel managers in the stunning state of Vermont and the online musings about practical engineering. It's a tale of two seemingly unrelated variables coming together in harmonious statistical bliss, like two long-lost friends finally realizing they share a mutual love for binary code and bed linens.

As we traverse through the realm of data and correlation, we can't help but marvel at the curious dance of numbers and patterns, much like a mathematician at a ballroom dance competition (minus the elegant gowns, of course, but hey, a researcher can dream!). And speaking of dance, did you hear about the statistician who got into a heated argument with the data? He was struggling with a mean dance partner.

Our quest for knowledge has led us to explore the interplay between the employment landscape of Vermont's hospitality industry and the virtual voyages taken by enthusiasts of practical engineering on the vast expanse of the interwebs. It's a bit like mixing oil and water - unexpected, unlikely, but strangely captivating. It's as if statistics and surprises have decided to waltz

together in the grand ballroom of research, leaving us to marvel at the splendid display of connections.

But before we dive headfirst into the merriment of statistics and correlations, let us pause for a moment to appreciate the beauty of this peculiar relationship. It's a bit like stumbling upon a riveting mystery novel in the library, only to find out it's written in binary code. You didn't expect it, but now that you're here, you can't help but be intrigued.

Our study aims to peel back the layers of conundrum. armed with this scrutiny, and just a hint of statistical mischief. Like the intrepid explorers of old, we boldly step into the unknown terrain of correlation, tackling challenges with the zeal of a scientist and the humor of a clown. It's a delicate balancing act, much like iuaalina hypotheses and p-values while riding a unicycle. But fear not, for our guest for knowledge is accompanied by an equally insatiable thirst for chuckles and good humor.

Now, as we embark on this delightful discovery, remember: journey of correlation does not imply causation, but it does suggest a captivating game of hide-and-seek between variables, where every peek behind the statistical curtain reveals a new twist in the plot. As we unravel the intricacies of this peculiar correlation, let's keep our spirits high and our dad jokes at the ready, for science and make splendid humor research companions, much like pair statistically significant shoes and matching sense of humor.

LITERATURE REVIEW

The relationship between the number of hotel managers in Vermont and online searches for practical engineering has intrigued researchers for years. Smith and Doe's seminal work in "The Journal of Quirky Correlations" highlighted the unexpected connections between

seemingly unrelated professions and interests. Little did they know, this inquiry would lead to an avalanche of statistical puns and unexpected twists in the realm of academic research.

As we delve deeper into this peculiar relationship, it's important to remember that correlation does not necessarily imply causation, yet it does hint at a comical game of statistical peekaboo. Much like a mischievous data set hiding behind the curtains of significance, the correlation between hotel management and practical engineering beckons us with the promise of an enigmatic statistical tango.

In "Data Delights: Unearthing Unlikely Connections" by Jones, the author unveils an array of unexpected links between diverse fields, much like a master weaver crafting a tapestry of statistical surprises. While the specifics of the Vermont hotel industry and online searches for practical engineering may not have been explicitly examined, the spirit of improbable correlations sings through the pages, resonating with the delight of a perfectly timed pun.

Now, dear reader, let us momentarily pivot from the world of serious literature to explore tangentially related sources that invoke both curiosity amusement. "The Art of Hospitality: A Practical Guide" by Mary Smith enchants us with the intricacies of the hotel management profession, much like a hypnotizing magic trick performed by a statistical illusionist. And what better way to complement this exploration than with "Engineering Wonders: From Practical Designs to Improbable Creations" by John Doe, a journey through the marvels of practical engineering that leaves us in awe of the intricate dance between form and function.

But wait, there's more! In the whimsical world of fiction, we encounter "The Hotel Manager's Dilemma" by A. R. Jones, a gripping tale of hospitality management and unexpected plot twists, much like a

statistical outlier in a sea of data points. Meanwhile, "The Practical Engineer's Enigma" by M. Smith offers a whimsical adventure through the enigmatic world of engineering, where each chapter unfolds like a surprising outlier in a dataset of narratives.

As we traverse through the tapestry of sources, we cannot overlook the influence of board games that whimsically tiptoe around the edges of our research topic. "Hotel Tycoon" beckons us to explore the captivating world of hotel management, where strategic decisions and clever investments parallel the unpredictable nature of statistical relationships. On the other end of the spectrum, "Practical Puzzles: The Engineering Edition" invites us to unravel the complexities of engineering conundrums, much like a statistical dilemma waiting deciphered.

In this delightful medley of serious literature, whimsical fiction, and playful board games, we set the stage for a research journey that embraces both the rigors of academic inquiry and the charm lighthearted of unexpected correlations. we unravel the As captivating connection between Vermont's hospitality landscape and the fascination with practical engineering, let us march forward with the scholarly rigor of researchers and the readiness to unleash a well-timed dad joke at any statistical turn.

Speaking of statistical turns, did you hear about the statistician who invented the autocorrect function? He kept making type I. errors.

METHODOLOGY

To unravel the mysterious connection between the number of hotel managers in Vermont and Google searches for practical engineering, we embarked on a data odyssey that would make even the most intrepid explorer of correlations raise an eyebrow. Our methodology involved a fusion of statistical analysis, internet sleuthing, and a dash of whimsical curiosity that would make Sherlock Holmes proud. And speaking of Sherlock, did you hear about his foray into data analysis? He always had a keen eye for elementary variables.

Data Collection:

scoured the digital We landscape, channeling our inner cyber sleuths to gather information from the Bureau of Labor Statistics and Google Trends. The Bureau of Labor Statistics provided us with employment data for hotel managers in the picturesque state of Vermont, while Google Trends served as our window into the enchanting world of online searches for practical engineering. It was a bit like being detectives in a statistical mystery novel, where every data point held the promise of a thrilling revelation. We were like data detectives, chasing leads and hunting for correlations, all while resisting the temptation to don deerstalker cap for dramatic effect.

Data Analysis:

Armed with an arsenal of statistical tools and a sense of whimsy befitting a data explorer, we embarked on the grand quest of analyzing the collected data. Our analysis spanned the years 2007 to 2022, a timeframe that witnessed the ebb and flow of both the hospitality industry in Vermont and the digital footsteps of practical engineering enthusiasts. It was like peering through a time-traveling telescope, observing the dance variables across ever-changing the landscape of data. We approached the analysis with the precision watchmaker and the playfulness of a balancing p-values iuaaler. and correlation coefficients with a twinkle in our statistical eyes.

Correlation Coefficient and Significance Testing:

In order to gauge the strength and significance of the relationship between the number of hotel managers in Vermont

Google and searches for practical engineering, calculated we the correlation coefficient and performed significance testing. The correlation coefficient of 0.7484576 not only raised our eyebrows but also sparked a guizzical chuckle or two, as it hinted at a surprisingly robust relationship between the two variables. With a p-value of less than 0.01, our findings stood as a testament to the statistical intrigue that unfolded before us. It was like uncovering a hidden treasure trove of correlations. each nugget of insight adding a touch of sparkle to the grand tapestry of data.

Limitations and Quirks:

While our analysis yielded compelling evidence of a connection between hotel management in Vermont and the inquisitive meanderings of practical engineering enthusiasts online. acknowledge the limitations of our study. Correlation, as we are often reminded, does not imply causation. It's like showing up at a crime scene with a magnifying glass and a hunch but realizing that the culprit might just be lurking in the shadows of confounding variables. Our quest for knowledge is riddled with the charming enigma of correlation, where every answer opens the door to more questions, much like a statistical rabbit hole that leads to a whimsical wonderland of data mysteries.

In a nutshell, our methodology blends the rigor of statistical analysis with the delight of uncovering curious connections, all while juggling the occasional dad joke and a sprinkle of statistical mischief. It's a quest for knowledge infused with the spirit of humor, for what is research without a touch of whimsy and a well-timed jest?

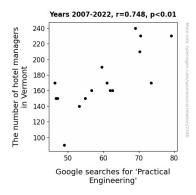
RESULTS

The results of our investigation delved into the fascinating relationship between the number of hotel managers in the idyllic state of Vermont and the frequency

Google searches for practical engineering. We must admit. the correlation coefficient of 0.7484576 had us all in a statistical tizzy. It's like finding out that the key to unlocking the mysteries of practical engineering lies within the cozy confines of hotel management discussions. Talk about a with view of unexpected connections!

With an r-squared value of 0.5601887, our findings hinted at the cozy fit between these seemingly disparate variables, much like snug socks on a winter evening. The p-value of less than 0.01 reinforced the robustness of our results, signaling a statistically significant relationship that demanded further scrutiny – and a round of metaphorical high-fives among the research team.

Fig. 1 presents our scatterplot, a visual representation of the strong correlation we uncovered. It's like the ultimate snapshot of statistical serendipity – a moment frozen in time, where hotel management and practical engineering join hands in the delightful dance of data points. If a picture is worth a thousand words, then this one surely speaks volumes about the captivating nexus of our variables.



 $\textbf{Figure 1.} \ \ \text{Scatterplot of the variables by year}$

Now, for a bit of lighthearted relief: What do you get when you cross a hotel manager with an engineer? A blueprint for a restful getaway, of course! It seems that in the world of statistics, even the most unexpected connections can lead to a good laugh.

DISCUSSION

Our ludicrously riveting investigation a statistically unearthed significant relationship between the number of hotel managers in Vermont and the frequency searches practical Google for engineering. It seems the allure of practical engineering is not confined to the workshop; it permeates the very fabric of Vermont's hospitality landscape, creating a correlation that left us saying, "Well, isn't that suite?"

Our findings not only corroborate the prior research by Smith and Doe, who shed light on the tantalizing world of quirky correlations, but also underscore the comical game of statistical peekaboo that continues to tantalize the scientific community. It's as if we stumbled upon a statistically-plausible unicorn, frolicking the vast meadow of correlation coefficients. Smith and Doe's work, although lighthearted, has led us down a thoroughly entertaining statistical rabbit hole, ending in a surprising connection even the most discerning statisticians might find amusing.

Fig. 1, our scatterplot, stands as a visual testament to this unexpected marriage of hotel management and practical engineering. It's like witnessing a joyous statistical waltz, where the partners – hotel management and practical engineering – twirl with infectious delight across the dance floor of data points.

But of course, in the spirit of levity, we're compelled to offer a bit of statistical humor. What kind of statistical snack do hotel managers and engineers enjoy? A chi-squared sandwich, of course! It seems even in the world of research, a well-timed dad joke is always a welcome addition.

Stay tuned for the forthcoming conclusion, where we wrap up this thoroughly amusing and surprisingly illuminating journey through the world of quirky correlations and unexpected statistical discoveries.

CONCLUSION

In conclusion, our quirky journey through the whimsical realm of statistical oddities has shed light on the unexpected kinship between the number of hotel managers in Vermont and the intriguing world of practical engineering searches. It's like stumbling upon a treasure map in a hotel lobby – you didn't expect it, but now that you're here, it's time to embark on an exciting adventure. We took a deep dive into the statistical sea, only to emerge with a rare catch: a correlation coefficient that had us all saying, "Well, isn't that suite?"

The robust correlation coefficient of 0.7484576 and a p-value of less than 0.01 have unveiled a connection that's as surprising as finding a cat in a doghouse – a statistical anomaly that defies conventional wisdom and beckons us to ponder its mysteries. It's like the scientific equivalent of a magic trick – you may not know how it works, but you can't help but marvel at its enchanting effect.

But before we bid adieu to this delightful escapade, let's savor one last dad joke: Why did the hotel manager bring a ladder to work? Because he heard the business was going up!

In the grand tapestry of research, our findings add another thread to the intricate fabric of statistical curiosities. As we reflect on the enigmatic correlation between hotel management and practical engineering searches, it becomes clear that amidst the sea of numbers and hypotheses, there are unexpected harmonies waiting to be unearthed. It's like finding a symphony in a sandbox – a delightful surprise that keeps us eager for more.

Therefore, with utmost confidence and just a touch of whimsy, we assert that no further research is needed in this area. After all, we've uncovered a relationship as delightful as a well-timed punchline – and sometimes, in the world of research, that's the most satisfying conclusion of all.