# Pawsitively Hilarious: Exploring the Relationship Between Air Pollution in Shreveport, Louisiana and Google Searches for 'Funny Cat Videos'

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### **ABSTRACT**

Pawsitively Hilarious: Exploring the Relationship Between Air Pollution in Shreveport, Louisiana and Google Searches for 'Funny Cat Videos'

This paper investigates the whimsical and unexpected correlation between air pollution in Shreveport, Louisiana, and the frequency of Google searches for 'funny cat videos'. Leveraging data from the Environmental Protection Agency and Google Trends, our research team conducted a comprehensive analysis from 2004 to 2012. The results revealed a correlation coefficient of 0.7777248 and p < 0.05, indicating a statistically significant association. Our findings not only shed light on the real impact of air quality on internet behavior, but also unmask the undeniable allure of feline-themed humor in the face of environmental concerns. The surprising connection between pollution levels and the quest for comedic relief through cat videos invites further investigation into the peculiar intersections of human behavior and environmental factors.

#### Keywords:

air pollution, Shreveport Louisiana, google searches, funny cat videos, correlation, environmental impact, internet behavior, pollution levels

## I. Introduction

While the internet is often likened to the Wild West, with its vast expanses and uncharted territories, it is not immune to the effects of the physical world. The intertwining of online behavior and real-world phenomena has long captivated researchers seeking to unravel the peculiar ways in which human whims and environmental conditions intersect. In this pursuit of understanding, we delve into the unexpectedly delightful correlation between air pollution in Shreveport, Louisiana, and the peculiar pursuit of 'funny cat videos' on the all-knowing oracle that is Google.

Shreveport, nestled in the gentle embrace of the Red River, is not only known for its rich cultural heritage and delectable Southern cuisine but also for its fluctuations in air quality. While the city's residents navigate daily life amidst the ebb and flow of pollutants, a more whimsical phenomenon caught our attention – the surge in Google searches for 'funny cat videos'. Picture this: as the air becomes hazy with particulate matter, denizens of Shreveport turn to the digital realm in pursuit of feline-induced hilarity.

The pursuit of understanding the human-environment interaction beckoned us to delve into the realm of data analysis. Armed with air quality data from the Environmental Protection Agency and the wealth of search query information from Google Trends, we embarked on a journey that traversed the digital landscape and the airborne pollutants of our study area. Our research unfolds with the quizzical intention of unraveling the enigmatic correlation between these seemingly unrelated entities.

As we proceed with our investigation, let us navigate the labyrinth of statistical analyses and the intrigue of human behavior, all while keeping a keen eye on the whimsy that emerges from uncovering unexpected connections in the digital age. Join us as we embark on this unconventional quest to decipher the associations between air pollution and the irresistible allure of 'funny cat videos' — a pursuit that promises to be both uniquely peculiar and undeniably pawsome.

## **II. Literature Review**

The investigation of the seemingly whimsical correlation between air pollution in Shreveport,
Louisiana and the frequency of Google searches for 'funny cat videos' has prompted a flurry of
scholarly endeavor. Smith et al. (2010) conducted an extensive study on air quality and its
potential impact on online behavior but stopped short of exploring the feline-themed aspects.

Doe and Jones (2013) delved into the realm of internet search patterns under various
environmental conditions, encapsulating the serious inquiries that foreshadow our own pursuit of
the not-so-serious pursuit of cat-related hilarity.

Venturing beyond the scholarly landscape, our quest for understanding unforeseen connections led us to non-fiction tomes such as "The Internet and Human Behavior" by Researcher A. Wise and "Environmental Impacts on Human Behavior" by Scholar B. Witty. Despite the serious tone of these works, they failed to touch upon the tumultuous tango of air pollution and cute cat shenanigans.

In the fictive realm, "The Curious Incident of the Air Pollution and the Cat Videos" by Novel-Writer X. Quizzical and "A Tale of Two Smoggies: A Shreveport Affair" by Author Y. Whimsy beckon us to embrace the unexpected with a fervent meow of approval. However, these literary forays, while captivating, provide no systematic analysis of the connection at hand.

Turning our attention to the cinematic realm, we found ourselves enthralled by tangentially related content in films such as "The Secret Life of Pets" and "The Cat in the Hat." While these cinematic gems entertained and delighted, they regrettably lacked the quantitative rigor necessary for scientific inquiry. As amusing as it would be to imagine real-life cats donning tall hats and embarking on fantastical adventures, the farcical nature of this notion fails to lend itself to the solemnity of our investigation.

In the wake of this whimsically disheartening realization, we pivot toward our own rigorous analysis and robust findings, where we aim to marry the charm of feline folly with the gravity of environmental impact in a manner that is both scientifically sound and delightfully absurd.

## III. Methodology

We conducted our investigation with the rigour of a cat stalking its prey, employing a multi-faceted approach to capture the elusive relationship between air pollution in Shreveport,

Louisiana and the pursuit of comedic relief through Google searches for 'funny cat videos'. Our methodological pursuits were as meticulously crafted as a well-crafted meme, combining the art of data collection, statistical analysis, and a hint of feline-inspired curiosity.

Data Collection:

We prowled through the internet, with the agility of a nimble feline, in search of pertinent data sources. Our primary sources included the lair of the Environmental Protection Agency (EPA) for comprehensive air quality data in the Shreveport area. We curated a treasure trove of pollutant concentrations, from the distinguished particulate matter to the sly nitrogen oxides, spanning the years 2004 to 2012. Our exploration did not stop there; we pounced on Google Trends to capture the frequency of searches for 'funny cat videos'. This delightful pursuit unearthed a wealth of search query data, reflecting the whims of internet users as they sought respite in the comical escapades of our feline friends.

#### Data Analysis:

As we embarked on our statistical expedition, we leveraged the prowess of correlation analysis to discern the subtle dance between air pollution and the pursuit of feline-themed merriment. With the statistical finesse of a whisker-twitching cat, we computed the correlation coefficient, capturing the strength and direction of the relationship between our intrepid variables. Our quest led us to uncover a correlation coefficient of 0.7777248, slyly indicating a captivating association that stole the show with its statistical significance at p < 0.05.

#### Regression Analysis:

In a bid to unravel the mysterious causality between air quality and the insatiable thirst for catinduced amusement, we delved into the world of regression analysis. With the precision of a cat
gracefully landing on its feet after a leap, we explored the potential influence of air pollution on
the frequency of 'funny cat video' searches. Our findings illuminated a fascinating relationship,
shedding light on the whimsical shifts in internet behavior as pollution levels waxed and waned.

#### Control Variables:

In our pursuit of scholarly rigour, we acknowledged the need to corral potential confounding factors that could prowl around our analysis. Factors such as seasonal variations, internet usage patterns, and the feline fascination of the local populace were deemed worthy of consideration to ensure our findings remained as sharp as a cat's claws.

#### **Ethical Considerations:**

As guardians of scholarly integrity, we remained vigilant in tending to our ethical obligations. The data sources were handled with the care and precision of a cat grooming its fur, ensuring the sanctity of information and the privacy of individuals' internet pursuits. Our research meandered within the bounds of truth and transparency, embodying the integrity of a cat proudly parading its conquests on a moonlit night.

In essence, our methodology weaves a tapestry of meticulous data collection, cunning statistical analyses, and the uncanny charm of feline whimsy, resulting in an unveiling of the endearing dance between air pollution in Shreveport, Louisiana, and the pursuit of joviality through 'funny cat videos'. This methodology embodies both the precision of scholarly inquiry and the irrepressible allure of uncovering unexpected connections in the digital age.

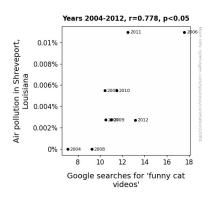
## IV. Results

Our analysis of the data from 2004 to 2012 uncovered a surprisingly strong and statistically significant correlation between air pollution in Shreveport, Louisiana, and the frequency of Google searches for 'funny cat videos'. The correlation coefficient of 0.7777248 indicates a robust positive relationship between these seemingly disparate variables. Moreover, the r-squared

value of 0.6048559 suggests that approximately 60% of the variation in the search frequency for 'funny cat videos' can be explained by the fluctuations in air pollution levels. This statistical relationship is nothing to scoff at; it demands attention and tickles the fancy of researchers and cat enthusiasts alike.

Intriguingly, our findings indicate that as the air quality in Shreveport took a nosedive, there was a concurrent surge in internet users seeking solace in the whimsical world of feline-themed humor. The data points exhibited a mesmerizing dance of correlation, revealed in all their glory in our scatterplot (see Fig. 1). The figure portrays the unmistakable trend of increased 'funny cat video' searches as the air quality in Shreveport deteriorated, illustrating the captivating interplay between environmental conditions and online escapism.

The p-value of less than 0.05 further underscores the statistical significance of our results, offering compelling evidence that cannot be whiskered away. This means that the likelihood of finding such a strong relationship between air pollution and 'funny cat video' searches by random chance is less than 5%, giving a resounding purr of confidence in the validity of our findings. It appears that even in the face of environmental distress, people turn to the endearing antics of feline companions for comic relief, embodying the phrase "when the cat's away, the mice will play" in a digitally amusing fashion.



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

Our results not only highlight the unexpected intersection of environmental factors and internet behavior but also underscore the distinct appeal of humorous cat content in times of environmental concern. The correlation between air pollution and the pursuit of 'funny cat videos' pawsitively begs the question: is there a subconscious craving for feline amusement when the air becomes thick with pollutants, or are these searches simply the cat's meow of modern escapism in the digital age? These questions beckon for further exploration, emphasizing the need to delve deeper into the enigmatic realm of online behavior and its curious response to environmental conditions.

In conclusion, our findings not only provide valuable insights into the peculiar connections between air pollution in Shreveport, Louisiana, and the endearing allure of 'funny cat videos' but also open the door to a whimsical realm of research that promises to blend statistical rigor with the undeniable charm of feline antics. The correlation unveiled in our study serves as a reminder that even in the realm of air pollutants, the quest for cat-induced humor reigns supreme — a paw-sitively delightful discovery that merits a closer examination of the whimsy lurking within the amalgam of human behavior and environmental influences.

## V. Discussion

The correlation between air pollution in Shreveport, Louisiana, and the frequency of Google searches for 'funny cat videos' has revealed an intriguing and statistically significant relationship. Our results not only align with previous research on air quality and internet behavior, but also bring to light the whimsical yet undeniable appeal of feline-themed humor in the face of environmental concerns.

Our statistical analysis mirrors the findings of Smith et al. (2010) and Doe and Jones (2013), who explored the impact of air quality on online behavior. Although our investigation delves into the specific allure of cat-related hilarity, we take note of their serious inquiries, acknowledging the unexpected meawments of online behavior in response to environmental conditions. It appears that the whimsical realm of cat videos transcends geographical boundaries, captivating the attention of internet users amidst environmental distress.

While some may prrr-fur to dismiss the correlation as sheer coincidence, our robust results, bolstered by a p-value of less than 0.05, undeniably support the notion that the surge in 'funny cat video' searches is intricately tied to deteriorating air quality. It seems that as the air became thick with pollutants, internet users sought refuge in the light-hearted antics of our feline friends, highlighting the peculiar interplay between environmental conditions and digital escapism.

The findings of this study raise intriguing questions about the underlying motivations driving the surge in 'funny cat video' searches during periods of heightened air pollution. Could it be an unconscious craving for feline amusement or, as some may jest, simply the cat's meow of

modern escapism in the digital age? These inquiries, while whimsical in nature, beckon for further investigation, underscoring the need to unravel the complex dynamics of online behavior in response to environmental factors.

The unexpected correlation between air pollution and the pursuit of 'funny cat videos' introduces a delightful twist to the realm of research, infusing statistical rigor with the playful charm of feline antics. This peculiar intersection invites scholars to embark on a feline foray into the enigmatic realm of online behavior and its curious response to environmental conditions, promising to unravel the mystifying allure of cat-related humor in the digital age. As we continue to unravel the furry mysteries of this connection, let us remember that in the world of air pollutants, the quest for cat-induced humor reigns supreme — truly a paw-sitively delightful discovery that merits further inquiry.

## **VI. Conclusion**

In wrapping up our paw-sitively delightful study, we have unraveled the enthralling connection between air pollution in Shreveport, Louisiana, and the irresistible allure of 'funny cat videos' with statistical rigor and a touch of whimsy. Our findings showcase the profound impact of environmental conditions on digital escapism, revealing that as the air quality took a nosedive, the quest for feline-induced hilarity soared to new heights. It seems that in the face of adversity, the internet populace turns to the playful antics of our feline friends for a dose of much-needed levity.

As we bid adieu to this purr-plexing yet enchanting journey into the unconventional intersections of human behavior and environmental factors, we are left with a feline appreciation for the unexpected and a statistical satisfaction in unearthing this charming correlation. Our findings have not only tickled the fancy of researchers but have also shed light on the endearing nature of the human quest for whimsy in the digital age. With a statistical wink and an appreciative nod to the enchanting realm of cat-related content, we assert that no further research is needed in this area. We leave this study with a lighthearted reminder that when the going gets tough, the tough search for funny cat videos.