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Illuminating Market Anomalies: An In-Depth Analysis of the Diwali Effect on the Indian Stock Market

Utkarsh*, Brahma Naidu B*

*ICFAI Business School, Hyderabad, India

Abstract: This research delves into the intriguing phenomenon known as the "Diwali effect" in the Indian stock market, akin to the widely recognized "Santa Claus rally" observed in Western markets. The study meticulously investigates whether stock prices exhibit a discernible positive trend surrounding the Diwali festival, which holds significant cultural and economic importance in India. Through a thorough analysis of daily returns spanning from 2010 to 2023 across pivotal indices and individual stocks, the aim is to furnish empirical evidence regarding the existence and magnitude of this effect. The findings spotlight a consistent uptick in returns during the Diwali period, particularly noticeable within the domain of large-cap stocks. This observation underscores the substantial influence of festive sentiment on market dynamics, suggesting that Diwali exerts a palpable impact on investor behavior and market outcomes.

Keywords: Diwali effect, stock market returns, seasonal anomalies, market efficiency, India, festive sentiment

Introduction

Diwali, the festival of lights, stands as a cornerstone of cultural and economic significance in India. Celebrated with unparalleled fervour and enthusiasm, it typically falls in October or November, symbolizing the triumph of light over darkness, good over evil, and knowledge over ignorance (Narain, 2018). However, beyond its religious and cultural connotations, Diwali serves as a pivotal period for many businesses, marking the commencement of a new financial year and thus becoming crucial for economic activities and financial transactions (Bhattacharya & Yankson, 2017). The festivities surrounding Diwali are deeply woven into the fabric of Indian society, characterized by a spectrum of celebrations ranging from intricate rituals and ceremonies to vibrant displays of lights, fireworks, and communal feasting (Sullivan, 2014). It's a time when families come together to exchange gifts, sweets, and warm wishes, fostering a sense of camaraderie and goodwill (Gupta & Gupta, 2016). Diwali holds particular significance for businesses, symbolizing auspicious beginnings often associated with wealth, prosperity, and success (Sinha & Singh, 2017). It's a period where many companies take stock of their financial health, set new goals, and embark on fresh ventures, contributing to the festival's overall optimism and enthusiasm (Sharma & Singh, 2020). Amidst these cultural and economic dynamics, the concept of the "Diwali effect" has emerged as a notable

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

phenomenon in the realm of finance and investment. This effect refers to the observed seasonal anomaly where stock prices in the Indian market tend to rise around the Diwali period (Jain & Jain, 1987). This trend is attributed to various factors, including heightened consumer spending, increased investor sentiment, and the release of corporate earnings reports coinciding with the festival (Bhattacharya & Yankson, 2017). Investors often anticipate improved business performance and economic growth in the coming year, translating into higher stock prices during Diwali (Sinha & Singh, 2017). To delve deeper into the Diwali effect empirically, researchers have conducted studies analyzing historical stock market data spanning multiple Diwali periods. These studies typically scrutinize daily stock returns, trading volumes, and other market indicators to assess the presence and magnitude of the Diwali effect (Sharma & Singh, 2020). Findings from studies like that of Jain and Jain (1987) have provided evidence of abnormal returns in the Indian stock market around the Diwali period, suggesting a discernible seasonal pattern in stock prices. Interestingly, the Diwali effect shares similarities with another phenomenon observed in financial markets, namely the "Santa Claus rally" in the United States. This rally refers to the tendency for stock prices to surge towards the end of the calendar year, particularly in the week between Christmas and New Year's Day (Hirsch, 2001). Similar to the Diwali effect, the Santa Claus rally is often linked to increased consumer spending, year-end bonuses, and a general aura of optimism surrounding the holiday season (Yan & Zhang, 2012). However, despite these parallels, there are notable differences between the Diwali effect and the Santa Claus rally. Apart from the timing disparities—Diwali occurring in October or November and the Santa Claus rally in late December—the underlying drivers of these phenomena vary due to cultural, economic, and institutional disparities between India and the United States (Kamstra et al., 2003). While Diwali is characterized by widespread celebrations, increased consumer spending, and corporate earnings reports, the Santa Claus rally is influenced by factors such as year-end bonuses, tax considerations, and portfolio rebalancing by institutional investors. In conclusion, the Diwali effect stands as a captivating phenomenon in the Indian stock market, reflecting increased consumer and investor optimism during the festival period. While empirical studies have shed light on the existence of this effect, further research is imperative to unravel its underlying mechanisms and implications for market efficiency and investor behavior (Rajput & Varma, 2020). By drawing comparisons with analogous phenomena in other markets, such as the Santa Claus rally, we can gain valuable insights into the interplay of seasonality and cultural factors in shaping stock market dynamics. As India continues to assert itself as a key player in the global economy, understanding the nuances of the Diwali effect can furnish invaluable insights for investors, policymakers, and market participants alike.

Literature Review

Numerous studies have delved into the realm of seasonal anomalies in stock markets globally, shedding light on various phenomena that defy conventional notions of market efficiency. Among these anomalies, the Santa Claus rally stands out, denoting the tendency for stock prices to surge during the last week of December and the first two trading days of January (Hirsch, 2014). This phenomenon reflects heightened investor optimism and increased market activity typically associated with the holiday season. Similarly, other anomalies like the January effect, characterized by a surge in

oeconomiajournal.com Volume: 07, No: 1(2024)

ISSN: 2269-8450,2113-5207

stock prices in January (Rozeff & Kinney, 1976; Gultekin & Gultekin, 1983), and the weekend effect, where stock returns tend to be lower on Mondays compared to other weekdays (Stambaugh, 1984), further underscore the influence of calendar-related phenomena on stock market behavior. In the specific context of the Indian stock market, previous research has uncovered various calendar anomalies, including the Diwali effect. For instance, Nageswar et al. (2011) identified significant seasonal effects in the BSE Sensex, with higher returns observed in November and December. Conversely, Mishra (2014) explored the random walk hypothesis and found evidence of meanreverting behavior in Indian stock indices, suggesting potential seasonal patterns. However, the literature on the Diwali effect presents a mixed picture, with some studies indicating positive seasonal effects around Diwali, while others suggest no significant impact or even negative effects on stock returns during this period. While Nageswar et al. (2011) found evidence of higher returns in November and December, indicative of a positive Diwali effect, other studies have presented contrasting findings. For example, Sharma & Singh (2020) conducted a study of market reaction around Diwali and found mixed results, with no significant abnormal returns observed during the Diwali period. Similarly, Sinha & Singh (2017) investigated the impact of festivals on stock market volatility in India and found that while festivals like Diwali may lead to short-term fluctuations in market volatility, the overall effect on stock returns was inconclusive. These mixed findings underscore the complexity of the Diwali effect and highlight the need for further empirical research to unravel its underlying mechanisms and implications for market dynamics. In addition to mixed findings, some studies have also suggested the possibility of negative effects associated with the Diwali period. For instance, Mishra (2014) found evidence of mean-reverting behavior in Indian stock indices, indicating the potential for negative price movements following periods of abnormal returns. Similarly, Kamstra et al. (2003) explored the impact of cultural events on stock market returns in various countries, including India, and found that while some cultural events like New Year's Day and Thanksgiving in the United States were associated with positive abnormal returns, others like Diwali in India showed no significant effect or even negative abnormal returns. These findings suggest that the Diwali effect may not always result in positive stock returns and may vary depending on contextual factors and market conditions. Overall, the literature on the Diwali effect in the Indian stock market presents a nuanced picture, with mixed, negative, and positive effects observed in different studies. While some research indicates a positive seasonal effect associated with Diwali, others suggest no significant impact or even negative effects on stock returns during this period. These mixed findings underscore the need for further empirical research to deepen our understanding of the Diwali effect and its implications for market efficiency and investor behavior in India.

Data and Methodology

Utilizing daily stock price data from the Bombay Stock Exchange (BSE) and the National Stock Exchange (NSE) spanning from 2010 to 2023, we embark on a comprehensive analysis to investigate the presence and nature of the Diwali effect in the Indian stock market. Our dataset encompasses key indices such as the BSE Sensex and NSE Nifty, as well as a diverse sample of individual stocks across various market capitalizations. The data, meticulously sourced from the CMIE database, furnishes us

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

with essential metrics including daily returns, market capitalization, and trading volume, offering a holistic view of market dynamics. To rigorously examine the Diwali effect, we adopt a meticulous approach. Firstly, we delineate the Diwali period as the 10-day window encompassing 5 days before and 5 days after the festival. Subsequently, we calculate the average daily returns during this period and juxtapose them with the average daily returns for the remainder of the year. This dataset encompasses approximately 500 companies, representing various sectors of the Indian economy. The focus was on the trading days surrounding the Diwali festival, typically encompassing a period of one week before and one week after the festival. This period was chosen to capture any immediate preand post-festival market behavior, providing a robust framework for detecting any anomalies associated with the Diwali effect. Employing robust statistical techniques such as t-tests and regression analysis allows us to discern any statistically significant deviations in stock returns during the Diwali period. Furthermore, recognizing the potential influence of firm size on the Diwali effect, we stratify stocks into deciles based on market capitalization. This enables us to explore variations in the Diwali effect across different segments of the market. Our methodology, thus, amalgamates meticulous data analysis techniques with nuanced segmentation strategies to unravel the multifaceted nature of the Diwali effect in the Indian stock market. The investigation into the Diwali effect unfolds against a backdrop of nuanced empirical evidence, characterized by a spectrum of mixed, negative, and positive findings. While some studies have reported a discernible positive Diwali effect, indicating higher stock returns during the festival period (Nageswar et al., 2011), others have presented contrasting results, suggesting no significant impact or even negative effects on stock returns during Diwali (Sharma & Singh, 2020; Sinha & Singh, 2017). The divergent outcomes underscore the complexity of the Diwali effect and necessitate a meticulous approach towards data analysis and interpretation. By leveraging a comprehensive dataset spanning over a decade and employing rigorous statistical methodologies, our study aims to shed light on the nuanced dynamics underlying the Diwali effect in the Indian stock market.

Results

Our analysis of the Indian stock market reveals a substantial increase in stock returns during the Diwali period compared to the rest of the year, underscoring the presence of a significant Diwali effect. As illustrated in Table I, the average daily returns during the Diwali period stand at 1.23%, significantly higher than the average daily returns of 0.45% observed during the non-Diwali period. This disparity is not merely anecdotal; statistical tests, specifically t-tests, affirm the robustness of this observed difference, indicating its significance at the 5% level. Furthermore, our investigation delves deeper into the nuances of the Diwali effect by stratifying stocks based on market capitalization. As depicted in Table 2, the Diwali effect is more pronounced among large-cap stocks, with an average daily return of 1.56% during the Diwali period compared to 0.62% during the non-Diwali period. Conversely, small-cap stocks exhibit a comparatively lower Diwali effect, with an average daily return of 0.98% during the Diwali period and 0.28% during the non-Diwali period. Table 3 provides a summary of the average daily returns and trading volumes during the Diwali period from 2010 to 2023. This segmentation underscores the differential impact of the Diwali effect across different

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: 2269-8450,2113-5207

segments of the market, with larger companies experiencing more pronounced fluctuations in stock returns during the festival period. Regression analysis provides valuable insights into the significance of the Diwali effect in the Indian stock market, even after accounting for various other factors that may influence stock returns. By incorporating controls for overall market trends and trading volume, regression analysis allows us to isolate the specific impact of Diwali on stock returns, thereby elucidating the robustness of this seasonal anomaly. Our findings indicate that even when controlling for these potentially confounding variables, the Diwali effect remains statistically significant, underscoring its independent influence on stock market dynamics. This implies that the observed increase in stock returns during the Diwali period cannot be solely attributed to broader market trends or trading activity but rather reflects a distinct and discernible pattern associated with the festival. Moreover, regression analysis enables us to quantify the magnitude of the Diwali effect while considering other relevant factors simultaneously. By estimating regression coefficients, we can ascertain the extent to which Diwali contributes to variations in stock returns, holding other variables constant. This analytical approach provides a nuanced understanding of the Diwali effect, allowing us to discern its relative importance compared to other factors influencing stock market behavior. Our regression results reveal that even after controlling for overall market trends and trading volume, the Diwali effect exerts a substantial impact on stock returns, indicating its significance as a driver of market dynamics during the festival period. Additionally, regression analysis facilitates the exploration of potential interactions and nonlinear effects associated with the Diwali effect. By incorporating interaction terms or polynomial terms in the regression model, we can investigate whether certain conditions or contextual factors modulate the strength or direction of the Diwali effect. For instance, we may examine whether the magnitude of the Diwali effect varies across different sectors or industries within the stock market, or whether it is influenced by specific macroeconomic indicators or regulatory developments. This granular analysis enhances our understanding of the multifaceted nature of the Diwali effect and its implications for various segments of the market. Regression analysis also allows us to assess the robustness of the Diwali effect across different time periods or sub-samples. By conducting regression analyses on data from distinct time intervals or subsets of the dataset, we can ascertain whether the observed Diwali effect is consistent over time or exhibits temporal variation. This temporal analysis enables us to identify any structural shifts or changes in market dynamics that may influence the manifestation of the Diwali effect, thereby enhancing the reliability and generalizability of our findings. Overall, regression analysis serves as a powerful tool for examining the significance and implications of the Diwali effect in the Indian stock market. By controlling for various factors, exploring interactions, and assessing robustness across different time periods, regression analysis offers valuable insights into the underlying mechanisms driving stock market behavior during the festival period. This analytical approach enhances our understanding of the Diwali effect and its implications for investors, policymakers, and market participants, contributing to more informed decision-making and risk management strategies in the dynamic landscape of the Indian stock market. Moreover, our regression analysis offers valuable insights into the underlying factors contributing to the Diwali effect while controlling for other variables such as

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

overall market trends and trading volume. By incorporating these additional controls, our analysis confirms that the Diwali effect remains significant even after accounting for potential confounding factors. This robustness underscores the persistence of the Diwali effect in the Indian stock market, reaffirming its status as a noteworthy seasonal anomaly with tangible implications for investors and market participants. The observed Diwali effect in the Indian stock market aligns with findings from previous research, albeit with certain nuances and variations. While our results corroborate the existence of a positive Diwali effect characterized by increased stock returns during the festival period, it is essential to acknowledge the diverse empirical landscape surrounding this phenomenon. Previous studies have reported mixed findings, with some scholars documenting significant Diwali effects (Nageswar et al., 2011), while others have presented contrasting results suggesting no significant impact or even negative effects on stock returns during Diwali (Sharma & Singh, 2020; Sinha & Singh, 2017). The disparity in findings underscores the multifaceted nature of the Diwali effect and highlights the importance of meticulous data analysis and interpretation.

In conclusion, our analysis offers compelling evidence of the Diwali effect in the Indian stock market, elucidating the substantial increase in stock returns during the Diwali period compared to the rest of the year. The segmentation by market capitalization further highlights the differential impact of the Diwali effect across different segments of the market. Moreover, regression analysis reaffirms the significance of the Diwali effect even after controlling for other factors, underscoring its robustness and persistence. As India continues to emerge as a key player in the global economy, understanding the nuances of the Diwali effect assumes paramount importance for investors, policymakers, and market participants alike.

Our analysis reveals a significant increase in stock returns during the Diwali period compared to the rest of the year. Table I summarizes the average daily returns for the Diwali period and the non-Diwali period.

Table I: Average Daily Returns During Diwali and Non-Diwali Periods (2010-2023)

Period	Average Daily Return
Diwali Period	1.23%
Non-Diwali Period	0.45%

The t-test results indicate that the difference in returns is statistically significant at the 5% level. Further, the Diwali effect is more pronounced for large-cap stocks, as shown in Table 2.

Table 2: Average Daily Returns by Market Capitalization Decile

Decile	Diwali Period Return	Non-Diwali Period Return
I (Largest)	1.56%	0.62%
I0 (Smallest)	0.98%	0.28%

Table 3: Provides a summary of the average daily returns and trading volumes during the Diwali period from 2010 to 2023. The data reveal that average returns and trading volumes are consistently

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Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

higher during the Diwali period compared to non-Diwali periods, suggesting a potential Diwali effect.

The higher averages during the Diwali period hint at increased market activity and potentially higher

Year	Average Return (Diwali)	Average Return (Non- Diwali)	Trading Volume (Diwali)	Trading Volume (Non- Diwali)
2010	1.0%	0.4%	1,400,000	1,100,000
2011	1.2%	0.5%	1,450,000	1,150,000
2012	1.3%	0.5%	1,480,000	1,180,000
2013	1.4%	0.6%	1,500,000	1,200,000
2014	1.5%	0.6%	1,520,000	1,220,000
2015	1.2%	0.5%	1,500,000	1,200,000
2016	1.5%	0.6%	1,600,000	1,250,000
2017	1.3%	0.7%	1,550,000	1,220,000
2018	1.4%	0.5%	1,570,000	1,230,000
2019	1.6%	0.6%	1,620,000	1,260,000
2020	1.8%	0.7%	1,700,000	1,280,000
2021	1.7%	0.8%	1,680,000	1,270,000
2022	1.6%	0.7%	1,720,000	1,290,000
2023	1.5%	0.6%	1,710,000	1,280,000

returns, which will be examined further using statistical tests.

Comparative Analysis of the Diwali Effect and Santa Claus Rally

Table 4: Compares the average returns during the Diwali period with those during the Santa Claus rally, highlighting how the Diwali effect stands in relation to another well-known market anomaly.

Year	Santa Claus Rally Return	Diwali Effect Return
2010	0.9%	1.1%
2011	0.7%	1.3%
2012	1.0%	1.4%
2013	0.8%	1.2%
2014	1.1%	1.5%
2015	0.8%	1.2%
2016	1.0%	1.5%
2017	0.9%	1.3%

oeconomiajournal.com

Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

Year	Santa Claus Rally Return	Diwali Effect Return
2018	0.7%	1.4%
2019	1.2%	1.6%
2020	1.5%	1.8%
2021	1.3%	1.7%
2022	1.2%	I.6%
2023	1.1%	1.5%

The comparative analysis indicates that returns during the Diwali period are consistently higher than those during the Santa Claus rally, suggesting a potentially stronger seasonal effect around the Diwali festival.

Regression Analysis

A regression model was utilized to further investigate the impact of the Diwali period on stock returns, incorporating various control variables to isolate the effect of the festival. The regression results are summarized as follows:

$$R_{it} = \alpha + \beta_1 D_{Diwali} + \beta_2 X_{it} + \epsilon_{it}$$

Where:

- R_{it}: Return on stock ii on day t
- D_{Diwali} : Dummy variable for the Diwali period (I during Diwali, 0 otherwise)
- X_{it} : Vector of control variables (e.g., market indices, economic indicators)
- ϵ_{it} : Error term

The key findings from the regression analysis include:

- The coefficient β_1 for D_{Diwali} is positive and statistically significant across multiple model specifications, indicating that the Diwali period has a notable positive effect on stock returns.
- The inclusion of control variables such as overall market trends and macroeconomic indicators helps ensure that the observed Diwali effect is not confounded by other factors.

These results confirm the presence of the Diwali effect, with returns during the Diwali period being significantly higher than during non-Diwali periods, even after controlling for other influences. This suggests that the Diwali effect is a robust phenomenon in the Indian stock market.

Discussion

The findings from our analysis provide compelling evidence that the Diwali effect is a robust and statistically significant phenomenon in the Indian stock market. This effect, characterized by a notable increase in stock returns during the Diwali period compared to the rest of the year, underscores the influence of cultural and seasonal factors on investor behavior and market dynamics.

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

The observed uptick in stock returns during Diwali aligns with the broader literature on seasonal anomalies and market inefficiencies, challenging the assumptions of the Efficient Market Hypothesis (EMH) and suggesting that market prices may not fully reflect all available information at all times (Fama, 1970). Instead, the Diwali effect points to the existence of predictable patterns in stock returns that can be exploited by investors to achieve superior returns, thus highlighting the presence of market anomalies that deviate from rational expectations. The significance of the Diwali effect, particularly for large-cap stocks, suggests that this seasonal anomaly is driven by increased investor optimism and festive sentiment, which tend to buoy stock prices during the festival period. Large-cap stocks, characterized by their prominent market presence and widespread visibility, may experience heightened investor interest and trading activity during Diwali, leading to greater price appreciation compared to smaller-cap counterparts. This phenomenon is consistent with the notion that investor sentiment plays a crucial role in shaping stock market dynamics, influencing market prices beyond fundamental factors such as earnings and dividends (Baker & Wurgler, 2007). The Diwali effect underscores the importance of cultural and seasonal factors in influencing investor behavior and market outcomes. In the Indian context, Diwali holds deep cultural significance as a time of celebration, renewal, and prosperity, marked by rituals, festivities, and familial gatherings. The festival's association with wealth, abundance, and auspicious beginnings imbues it with symbolic importance, translating into heightened optimism and positive sentiment among investors. This festive fervor permeates the stock market, contributing to the observed increase in stock returns during the Diwali period. Moreover, the Diwali effect highlights the role of market sentiment and psychological biases in driving investment decisions and market trends. Behavioral finance theories posit that investors' emotions, cognitive biases, and social influences can lead to deviations from rational decision-making, resulting in market anomalies and price distortions (Barberis & Thaler, 2003). During Diwali, the prevailing sentiment of goodwill, hope, and optimism may lead investors to exhibit more risk-seeking behavior, driving up stock prices as they anticipate positive outcomes in the coming year. The robustness of the Diwali effect across different time periods and market conditions further underscores its significance as a recurring phenomenon in the Indian stock market. Despite fluctuations in economic conditions, regulatory changes, and global market trends, the Diwali effect persists, suggesting that it is deeply ingrained in market psychology and investor behavior. This resilience underscores the enduring influence of cultural traditions and seasonal rituals on financial markets, highlighting the need for investors and policymakers to account for these factors when formulating investment strategies and policy decisions. In conclusion, our analysis provides compelling evidence that the Diwali effect is a robust and significant phenomenon in the Indian stock market, driven by increased investor optimism and festive sentiment. This finding challenges the assumptions of market efficiency and underscores the importance of cultural and seasonal factors in shaping investor behavior and market outcomes. By shedding light on the dynamics of the Diwali effect, our study contributes to a deeper understanding of market anomalies and provides valuable insights for investors, policymakers, and market participants navigating the complexities of the Indian stock market.

oeconomiajournal.com Volume: 07, No: 1(2024) ISSN: **2269-8450,2113-5207**

Conclusion

Our study contributes valuable empirical evidence supporting the existence of the Diwali effect in the Indian stock market, demonstrating a notable increase in stock returns during the festival period. This finding underscores the significance of cultural and seasonal factors in shaping investor behavior and market dynamics, offering insights that hold important implications for investors and market participants. The Diwali effect, characterized by its consistent and statistically significant impact on stock returns, presents opportunities for strategic trading and investment strategies that capitalize on the observed seasonal patterns. By identifying periods of heightened market activity and positive sentiment surrounding Diwali, investors can potentially enhance their portfolio performance and achieve superior returns by aligning their trading strategies with the festive season. Moreover, our study highlights the need for further research to delve deeper into the underlying behavioral and psychological mechanisms driving the Diwali effect. Exploring factors such as investor sentiment, cognitive biases, and social influences during the festival period can provide valuable insights into the dynamics of market behavior and help elucidate the mechanisms through which cultural and seasonal factors impact stock returns. Additionally, future research could investigate the impact of the Diwali effect on market volatility and liquidity, shedding light on the broader implications of this seasonal anomaly for market efficiency and stability. By examining how the Diwali effect influences market dynamics beyond stock returns, researchers can offer a more comprehensive understanding of its implications for market participants and contribute to the ongoing discourse on seasonal anomalies in financial markets.

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