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Applying Artificial Intelligence, Global Stock Exchange Responded during Covid-19

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Abstract: The analysis investigates the impact of the COVID-19-induced shutdown period on the Indian stock exchange. The review examines the extent of the lockdown's effects on the Indian financial exchange and whether or not COVID-19's pre- and post-lockdown market reactions would have been quite similar. The Market Model Event has a focus on strategy approach. In order to conduct the evaluation, 31 companies listed on the Bombay Stock Exchange (BSE) are used as an example. 35 days are used as the example time frame for the review (24 February-17 April, 2020). A 35-day occasion window was chosen, with 20 days prior to and 15 days during the event. The lockdown was declared by the authorities on this particular occasion (t1). The results show that the market reacted forcefully and decisively during the present lockdown period, and that financial backers anticipated the lockdown and responded forcefully. However, during the pre-lockdown period, financial backers froze, which was reflected in disappointing AAR. The analysis looks for evidence of a positive AR around the current lockout period and confirms that the shutdown significantly impacted stock trading till the situation in India was resolved.

Keywords: Coronavirus; Event study; Lockdown period; Stock Market; Abnormal Return.

REFERENCES

- [1]. Adda, J. (2016). Economic activity and the spread of viral diseases: Evidence from high frequency data. The Quarterly Journal of Economics, 131(2), 891-941. DOI: doi.org/10.1093/jet/qjw005
- [2]. Baker, S. R., Bloom, N., Davis, S., Cost, K., Sammon, M., & Virtuosi, T. (2020). The Unprecedented Stock-Market Reaction to COVID-19, Kellogg Insight. Chicago, IL: Kellogg School of Management, North-western University.
- [3]. Brown, S. J., & Warner, J. B. (1985). Using daily stock returns: The case of event studies. Journal of Financial Economics, 14, 3-31. https://doi.org/10.1016/0304-405X(85)90042-X
- [4]. DH Web Desk (2020). Coronavirus India update: State-wise total number of confirmed cases, deaths on April 17. Deccan herald Online Newspaper, Retrieved April 20, 2020, https://www.deccanherald.com/national/coronavirus-india-updatestate-wise-total-number-of-confirmed-cases-deaths-onapril-17-826340.html
- [5]. Ducharme, J (2020) World Health Organization Declares COVID-19 a 'Pandemic.' Here's What That Means. Time Online Newspaper, Retrieved April 20, 2020, from https://time.com/5791661/who-coronavirus-pandemic-declaration/March 11.