Review Form 3

Journal Name:	**Asian Journal of Advanced Research and Reports**
Manuscript Number:	**Ms_AJARR_130010**
Title of the Manuscript:	**Understanding the Impact of Algorithmic Trading on Indian Financial Markets: A Quantitative Analysis**
Type of the Article	

<mark>PART 1:</mark> Comments

	Reviewer's comment	Author's Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is highly significant for the scientific community, particularly for researchers and practitioners in the fields of **financial markets, algorithmic trading, and regulatory economics**. It provides a comprehensive analysis of how algorithmic trading has transformed the Indian financial markets, shedding light on critical dimensions such as **market liquidity, volatility, and efficiency**. The integration of quantitative data with qualitative regulatory insights offers a holistic perspective, which is essential for understanding the interplay between **technological advancements and market dynamics**. Moreover, the study's focus on emerging market challenges and regulatory interventions offers valuable lessons for both developed and developing markets, emphasizing the global relevance of the findings. This work contributes to the ongoing discourse on balancing **innovation with market stability**, an area of growing interest in today's increasingly automated trading ecosystems.	Add the reviewer comments
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article, **"Understanding the Impact of Algorithmic Trading on Indian Financial Markets: A Quantitative Analysis"**, is suitable as it clearly reflects the primary focus and methodology of the study. It conveys the topic of algorithmic trading, its geographical focus on the Indian financial markets, and the use of quantitative analysis, aligning well with the content of the manuscript.	Understanding the Impact of Algorithmic Trading on Indian Financial Markets: A Quantitative Analysis",

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		1. Add the reviewer comments in article 2. More information related to study aim, design and methodology in abstract 3. Add the information related to regulatory framework 4. Global implication justifying in the article
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article is well-structured and provides a clear overview of the research objectives, methodology, key findings, and conclusions. It effectively highlights the dual impact of algorithmic trading on liquidity and efficiency, as well as the associated challenges like volatility spikes and systemic risks. **Suggestions:** **1. Highlight Quantitative Findings**: While the abstract mentions benefits like enhanced liquidity and tighter spreads, it would be helpful to include specific metrics or numerical insights (e.g., percentage improvements in liquidity or volatility reduction due to regulatory measures). **2. Expand on Methodology**: Briefly mention the specific techniques used in the quantitative analysis (e.g., regression analysis, time-series analysis) to give readers a better understanding of the robustness of the study. **3. Regulatory Interventions**: Although the abstract acknowledges the role of SEBI's interventions, it could be enhanced by mentioning specific measures like circuit breakers or AI surveillance and their observed impact on mitigating risks. **4. Global Implications**: Add a sentence emphasizing how the findings are relevant not just for India but for other emerging markets, offering broader insights into algorithmic trading's impact.	
Is the manuscript scientifically, correct? Please write here.	Based on the initial review of the manuscript, it appears to be scientifically sound and methodologically robust. The study incorporates a mixed-methods approach, combining quantitative analysis of trading data with qualitative insights from regulatory frameworks, which is appropriate for the research objectives. Additionally, the manuscript draws on established literature, employs relevant metrics (e.g., market volatility, bid-ask spreads), and analyzes a longitudinal dataset (2015–2023), adding credibility to its findings. **Strengths:** **1. Methodology**: The use of regression analysis, event studies, and time-series analysis is scientifically appropriate for examining the impact of algorithmic trading on financial markets. **2. Data Sources**: Historical trading data from reputable exchanges (NSE and BSE) and SEBI reports ensure the reliability of the analysis. **3. Balanced Perspective**: The manuscript acknowledges both the benefits (e.g., enhanced liquidity and efficiency) and the risks (e.g., flash crashes, systemic disruptions), providing a nuanced discussion.	I would like to thank reviewer for their valuable comments on this article
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references in the manuscript are generally **sufficient and relevant**, with a mix of both global and Indian-specific studies. The inclusion of foundational works (e.g., Hendershott et al., Brogaard et al.) and recent research (e.g., studies published in 2022-2023) indicates that the manuscript draws on contemporary literature. The references cover key aspects of algorithmic trading, including its impact on market liquidity, volatility, and regulatory frameworks.	Add more recent reference in the article

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Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communication. The manuscript employs a formal, concise, and professional tone, which is appropriate for an academic audience. Additionally, the terminology used aligns with the field of financial markets and algorithmic trading, enhancing its credibility.	Thank you for the comments
Optional/General comments	This manuscript addresses a highly relevant and timely topic **algorithmic trading in Indian financial markets** and contributes valuable insights to the discourse on the intersection of technology, market dynamics, and regulation. The integration of **quantitative analysis** with **qualitative regulatory insights** is commendable and provides a comprehensive perspective that is beneficial for academics, practitioners, and policymakers. **Strengths:** **1. Topical Relevance**: The focus on algorithmic trading aligns with global trends in financial markets, making the manuscript of interest to an international audience. **2. Holistic Approach**: By addressing both the benefits (e.g., improved liquidity, efficiency) and risks (e.g., flash crashes, volatility), the manuscript provides a balanced analysis. **3. Regulatory Analysis**: The discussion on SEBI's interventions is insightful and demonstrates the practical implications of the research. **Suggested revision:** The abstract of the article is well-structured and provides a clear overview of the research objectives, methodology, key findings, and conclusions. It effectively highlights the dual impact of algorithmic trading on liquidity and efficiency, as well as the associated challenges like volatility spikes and systemic risks. **1. Highlight Quantitative Findings:** While the abstract mentions benefits like enhanced liquidity and tighter spreads, it would be helpful to include specific metrics or numerical insights (e.g., percentage improvements in liquidity or volatility reduction due to regulatory measures). **2. Expand on Methodology:** Briefly mention the specific techniques used in the quantitative analysis (e.g., regression analysis, time-series analysis) to give readers a better understanding of the robustness of the study. **3. Regulatory Interventions:** Although the abstract acknowledges the role of SEBI's interventions, it could be enhanced by mentioning specific measures like circuit breakers or AI surveillance and their observed impact on mitigating risks. **4. Global Implications:** Add a sentence emphasizing how the findings are relevant not just for India but for other emerging markets, offering broader insights into algorithmic trading's impact.	1. Add the reviewer comments in article 2. More information related to study aim, design and methodology in abstract 3. Add the information related to regulatory framework 4. Global implication justifying in the article

	No, there is no ethical issues in this manuscript. No, there is no competing interest issues. The plagiarism check should be conducted by the author and submitted to the journal for further review. However, based on my examination, there do not appear to be any issues with plagiarism in this manuscript.	

PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	