

Review Form 3

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| Journal Name: | Asian Journal of Research in Computer Science |
| Manuscript Number: | Ms_AJRCOS_129002 |
| Title of the Manuscript: | Environmental, Social, and Governance (ESG) Data Mining: A Comprehensive Analysis |
| Type of the Article | |

PART 1: Comments

| | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| <p>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.</p> | <p>This manuscript makes a significant contribution to the scientific community by providing a comprehensive analysis of how data mining techniques can enhance Environmental, Social, and Governance (ESG) analysis, which is increasingly critical in today's investment and corporate landscape. By integrating advanced methods such as machine learning, predictive modeling, and sentiment analysis, the paper highlights how data mining can extract actionable insights from both structured and unstructured ESG data, addressing challenges like data volume, variety, and accuracy. Moreover, it discusses the emerging role of cutting-edge technologies, such as blockchain and IoT, in transforming ESG practices and ensuring transparency and accountability. This work not only advances the understanding of ESG analytics but also offers practical solutions to overcome existing gaps and ethical concerns, making it an essential resource for researchers, investors, and policymakers striving to align financial decisions with sustainability goals.</p> | <p>Thanks for the comments.</p> |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>The current title is clear and descriptive, but it might benefit from emphasizing the innovative aspects of ESG data mining and its role in driving sustainability.</p> <p>Transforming ESG Analysis with Data Mining: Innovations in Sustainability, Governance, and Social Impact</p> | <p>Thanks for the suggestions.</p> |

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| <p>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.</p> | <p>The abstract of the article is generally comprehensive, but it could benefit from a bit more clarity and focus on the key innovations and contributions of the research. Below are a few suggestions for improvement: Strengths of the Current Abstract:</p> <ul style="list-style-type: none"> • Clear Overview: The abstract clearly introduces the role of ESG (Environmental, Social, Governance) factors in investment analysis and the importance of data mining in ESG analysis. • Key Areas Covered: It touches upon the use of data mining techniques, applications, future directions, and challenges, which provides a broad overview of the content. <p>Suggestions for Improvement:</p> <ol style="list-style-type: none"> 1. Emphasize the Role of Innovation: The abstract could place more emphasis on the <i>innovative data mining techniques</i> (like machine learning, deep learning, blockchain integration, etc.) used to analyze ESG data and how these innovations drive progress in ESG reporting, sustainability, and governance. <input type="checkbox"/> Example Revision: <input type="checkbox"/> This study examines how innovative data mining techniques, such as machine learning, deep learning, and blockchain, can be leveraged to analyze ESG data and uncover valuable insights that promote sustainability, governance transparency, and social equity. 2. Clarify the Scope: The abstract could briefly mention the <i>specific methodologies</i> used (e.g., clustering, sentiment analysis, predictive modeling) to give the reader a clearer sense of the technical depth. <input type="checkbox"/> Example Revision: <input type="checkbox"/> The paper explores various data mining methodologies, including clustering algorithms, sentiment analysis, and predictive modeling, to identify trends, assess ESG compliance, and support decision-making in sustainability. | <p>Noted and revised.</p> |
| <p>Is the manuscript scientifically, correct? Please write here.</p> | <p>Based on the content provided, the manuscript appears scientifically correct</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <p>While the manuscript contains many relevant references, adding recent studies from 2024 will further strengthen its scientific accuracy and ensure it reflects the most current advancements in ESG data mining, AI, blockchain, and real-time monitoring. The references listed above would complement and enhance the manuscript by providing a broader, up-to-date view of the field.</p> | <p>Ok</p> |
| <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The language and English quality of the article are generally suitable for scholarly communication. The writing is clear, coherent, and precise, making complex ideas accessible to a broad academic audience.</p> | |
| <p><u>Optional/General</u> comments</p> | | |

PART 2:

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| | <p><u>Reviewer's comment</u></p> | <p><u>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)</u></p> |
| <p><u>Are there ethical issues in this manuscript?</u></p> | <p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p> | |