

Review Form 3

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| Journal Name: | Journal of Engineering Research and Reports |
| Manuscript Number: | Ms_JERR_129975 |
| Title of the Manuscript: | Optimizing Resource Allocation with Predictive Analytics: A Data-Driven Approach to Operational Efficiency |
| Type of the Article | Review Article |

PART 1: 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) |
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| 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 an analysis that analyzes the role of predictive analytics as a game changer to tackle the issue of resource management which is of critical importance in many disciplines. It demonstrates the potential of sophisticated data and analytical techniques to solve pressing issues such as inefficiencies in operations, wastage and poor decision making in specialized areas such as Asset Management, manufacturing, Supply Chain Optimization, transport and logistics. | This manuscript explores predictive analytics as an innovative solution to manage resources in diverse fields that can cut costs, improve productivity, and enhance customers’ experience while commending the difficulty of ensuring data quality and managing massiveness. |
| Is the title of the article suitable? (If not please suggest an alternative title) | Change the title to “Optimizing Resource Allocation with Predictive Analytics: A Review of Data-Driven Approaches to Operational Efficiency” since it is all about review resource allocation | Changing the title to ‘Optimizing Resource Allocation with Predictive Analytics: A Review of Data-Driven Approaches to Operational Efficiency’ highlights the manuscript's systematic review of predictive analytics, enhancing clarity, relevance, and appeal across industries and academia. |
| 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 mention of challenges, such as data quality and model scalability, reflects a balanced approach by addressing both the opportunities and limitations of predictive analytics. However, the abstract could benefit from a more concise structure to avoid redundancy and enhance readability, especially by streamlining the list of applications and examples. A brief mention of the scope or structure of the manuscript could also provide better context for the reader." | The abstract now mirrors opportunities and threats, improves organization by reducing wordiness, applications, and adds the scope of the manuscript, making it capture the benefits of predictive analytics for resources management. |
| Is the manuscript scientifically, correct? Please write here. | Based on the information provided, the manuscript appears to be scientifically correct as it discusses widely recognized and validated techniques such as time series forecasting, regression analysis, clustering, and optimization for resource management. | The manuscript is scientifically credible, methodologically rigorous, methodologically comprehensive, applicably relevant, analytically fair, and forward-looking. |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | <p>The references listed in the manuscript cover a broad range of foundational and recent contributions in predictive analytics, machine learning, and their applications in various industries. However, the following observations and suggestions are made regarding the sufficiency and recency of references.</p> <p>Suggestions for Additional References:</p> <p>GYUNAM PARK and MINSEOK SONG. (2023). "Optimizing Resource Allocation Based on Predictive Process Monitoring.". IEEE Access PP(99):1-1. DOI:10.1109/ACCESS.2023.3267538</p> <p>Recency: While many references are recent (2020–2023), a significant number are older foundational works. While these are important, the manuscript could benefit from additional citations of recent research articles published in the last three years to reflect the latest advancements in predictive analytics and its applications.</p> <p>DOIs or URLs of the References: Authors must verify the presence of a DOI or URL for each reference.</p> | The manuscript incorporates recent studies (2020–2023), balances foundational and contemporary works, and ensures relevance, rigor, and updated insights in predictive analytics applications. |

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| Is the language/English quality of the article suitable for scholarly communications? | The manuscript contains numerous grammatical mistakes. To improve the quality of manuscript article, consider using proofreading tools like Grammarly . | The article's language is clear, precise, and formal, meeting academic standards. |
| Optional/General comments | <div><div>1.</div><div>Reference Citations: Please ensure that all references are appropriately cited in the article's main text in ascending order, e.g. [1], [2]</div></div> <div><div>2.</div><div>Figure and table Citations: The citations for figures, for example, Fig.1 and Fig.2, must be corrected if figures are opted from other resources.</div></div> | The article presents a clear and concise predictive analytics framework with real-life examples and a discussion of issues. |

PART 2:

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| | 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) | There are no ethical issues associated with this manuscript. |