Journal Name: [**Journal of Basic and Applied Research international**](https://www.ikprress.org/index.php/JOBARI)

Manuscript Number: **Ms\_JOBARI\_12805**

Title of the Manuscript:

**Data Science for Demand Forecasting and Inventory Management: A Comprehensive Review**

Type of the Article

**PART 1: Comments**

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **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 valuable to the scientific community as it provides a comprehensive review of how data science has revolutionized demand forecasting and inventory management, addressing key challenges faced by traditional methods.The scientific community would greatly benefit from this work since it offers a thorough analysis of how data science has transformed inventory management and demand forecasting while addressing significant issues with conventional approaches. By going over cutting-edge methods like LSTM networks, ARIMA, and machine learning algorithms, it draws attention  to the possibility of increased precision and adaptability in inventory management and forecasting. | Noted |
| **Is the title of the article**  **suitable?**  **(If not please suggest an alternative title)** | Yes, the title "Data Science for Demand Forecasting  and Inventory Management: A Comprehensive  Review" is suitable. | Ok |
| **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 quite comprehensive, as it covers the key themes of the manuscript, including the use of data science techniques (like ARIMA, LSTM networks, and machine learning) for demand forecasting and inventory management. It also highlights the improvements these techniques bring to supply chain management, mentions the challenges faced (data quality, scalability, interpretability), and | Effected revision |

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|  | introduces potential future advancements like federated learning and quantum computing. |  |
| **Is the manuscript scientifically, correct? Please write here.** | From my point of view , the manuscript is scientifically perfect | Ok |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | In this paper I have seen , you have added lot of references and that is enough. | Ok |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes. 100% suitable for scholarly communications. | Ok |
| **Optional/General** comments | I think it will be a valuable paper. |  |

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| **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)* |  |