

Journal Name:	<u>Journal of Basic and Applied Research international</u>
Manuscript Number:	Ms_JOBARI_12619
Title of the Manuscript:	A Survey of Time Series Data Forecasting Methods Based on Deep Learning
Type of the Article	Review Article

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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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>
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 valuable to the scientific community as it provides a comprehensive review of time series forecasting methods using deep learning models, including RNNs, LSTMs, GRUs, and Transformers. It highlights their performance on real-world datasets and identifies key challenges and future research directions. These insights contribute to advancing forecasting techniques in fields like finance, healthcare, and energy.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "A Survey of Time Series Data Forecasting Methods Based on Deep Learning," is clear and descriptive.	
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 is comprehensive but could be improved by including specific mentions of datasets, highlighting the comparative analysis of models, and briefly addressing challenges like computational complexity. Simplifying less critical details, such as IoT sensors, and adding clarity to phrases like "algorithmic architectures" would make it more focused and impactful.	
Is the manuscript scientifically correct? Please write here.	The manuscript is scientifically accurate, providing detailed explanations of deep learning models for time series forecasting and evaluating them with appropriate metrics and datasets. The mathematical formulations and experimental insights add to its technical correctness.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references appear to be comprehensive and include recent studies, such as works from 2023 and 2024, covering advanced models like Transformers and hybrid approaches. However, it could benefit from additional references addressing emerging models like Graph Neural Networks (GNNs) or state-of-the-art frameworks like N-BEATS or Autoformer for time series forecasting. Including these could further strengthen the manuscript's relevance.	

Is the language/English quality of the article suitable for scholarly communications?	The language quality of the article is generally suitable for scholarly communication. The technical terms and concepts are well-articulated, and the explanations are clear.	
Optional/General comments	The manuscript offers a comprehensive review of deep learning models for time series forecasting, supported by diverse datasets and evaluation metrics. To improve its impact, the authors could include a comparison with hybrid models combining deep learning and traditional statistical methods, while also highlighting real-world applications and computational efficiency.	

PART 2:

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

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