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| Journal Name: | [**Journal of Advances in Mathematics and Computer Science**](https://journaljamcs.com/index.php/JAMCS) |
| Manuscript Number: | **Ms\_JAMCS\_139895** |
| Title of the Manuscript: | **DEVELOPMENT OF HYBRID DEEP LEARNING AND REINFORCEMENT LEARNING FOR INTELLIGENT TRADING IN FOREX MARKETS** |
| Type of the Article |  |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | **Forecasting financial markets is a major intellectual challenge due to the large number of variables that influence their behavior. The Forex market is a decentralized global exchange market, in which many computational models have been tested for forecasting. This paper seeks a hybrid methodological approach to propose a model for forecasting the behavior of this market.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes.** |  |
| 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 MSE indicator, also used in the study, was missing.** |  |
| Is the manuscript scientifically, correct? Please write here. | • The MSE, RMSE and MAE indicators chosen as evaluation metrics are interesting  • Figure 1 is poorly focused. It needs to be redone.  • In the “Developmental Tools Used for Model Implementation” section, it is important to specify the versions of the software libraries used and the hardware configurations as well.  • The methodology section does not present the database used in the study. Is it public and can it be accessed? Was there any preprocessing? Is there a specific period of time used for consultation? What is its volume? How many attributes do they have? What are the inputs and outputs used in the model? How were the training and testing data segmented? Which variable(s) were used? Tables and details should be presented.  • Results are presented without an explanation of how the data were actually processed. Furthermore, it appears that the input data are time series. However, did the authors observe the influence of other contextual and political variables in the world that influence the results?  • The discussion is poor. Although the ablation study is necessary and a section of related works is presented, it is also important to have a discussion section in which the results achieved by the authors are compared with others already published.  • It is not clear how a human expert would use this model as an expert system. Is the future presented only based on past data? Is it not possible to intervene in the model with certain conditions so that the model serves as a simulator? |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | No. The database is not presented, and methodological and results discussions are necessary. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes. |  |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* |  |

**Reviewer details:**

**Ítalo Flexa Di Paolo, Brazil**