Review of: "Machine Learning Methods in Algorithmic Trading: An Experimental Evaluation of Supervised Learning Techniques for Stock Price"

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Potential competing interests: No potential competing interests to declare.

The research proposes a detailed study aimed at forecasting stock and currency prices using state-of-the-art Machine Learning (ML) techniques, such as Transformers, LSTM, Simple RNN, N-HEATS, and N-BITS. The article provides an in-depth overview of the methodology, data collection process, model implementations, evaluation metrics, and potential applications of the research findings. The research indicates that N-HEATS and N-BITS models exhibit superior performance in financial forecasting tasks, especially with limited data. However there are certain limitation of this work

1. The study mentions that Transformers require more data to reach full potential, which could be a limitation in real-world applications.
2. The study does not mention the use of a separate validation set for tuning the models. Relying solely on training and test sets might lead to overfitting and may not provide a true measure of the model's generalization capabilities.
3. It lacks the comparative analysis. While the paper mentions various traditional and machine learning models used in previous studies, it could provide a more detailed comparison of the proposed models with existing ones in terms of performance, computational efficiency, and applicability.
4. The paper could provide more justification for choosing the specific models (N-HEATS, N-BITS, LSTM, etc.) for comparison. An explanation of why these models were chosen over others could provide more context to the reader.
5. The paper does not discuss how it handles potential data imbalances, anomalies, or outliers in the financial data, which are common issues in stock price prediction.

In summary, the work seems to be a valuable contribution to the field of financial forecasting using machine learning techniques. It builds upon existing methodologies and provides a comparative analysis that could be beneficial for practitioners in the field.