Technical Report Writing

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Topic: Stock Market Price Prediction using Machine Learning

Conclusion:

This research offers an SVM-based stock market trend prediction system for selecting a good feature subset, evaluating stock indicators, and controlling over-fitting in stock market trend prediction. There are three different advantages to the proposed system.

One is that a good feature subset is chosen, one that includes features that are substantially associated with the output but not with one another. The second is that specific features are assessed and ranked. The correlation-based SVM filter approach is used to choose features and evaluate them at the same time.

Finally, the suggested solution is resilient since the piecewise linear principle is used to implement it, and the feature weights are used to construct the best separation hyperplane. Our approach outperforms existing prediction systems in terms of robustness, according to simulation data. It eliminates the over-fitting flaws that plague traditional stock market trend forecasting systems.