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# **BITBLOCKLEND**

## **Cryptocurrency Trading Recommendations and Analysis System**

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## ABSTRACT

Cryptocurrency trading is a highly volatile firm, with the prices of each cryptocurrency shifting fast. It is difficult for traders to maintain the pace of continuously shifting market trends and make informed decisions based on the facts provided. The author attempted to solve this challenge in this study by building and implementing a Cryptocurrency Trading Recommendations and Analysis System that may give significant insights into market trends and assist traders in making profitable investment decisions.

The author used machine learning techniques and statistical models to extract relevant insights from the massive quantity of data accessible in the Bitcoin market to tackle the challenge of analyzing it. To predict Bitcoin price patterns, the author used couple of technical indicators. In addition, the author analyzed market sentiments by pulling data from Twitter media. The author created a trading recommendation and analysis system that delivers reliable Bitcoin price predictions by integrating the findings of both technical and fundamental analysis.

The developed Cryptocurrency Trading Recommendations and Analysis System's test results revealed its usefulness in predicting Bitcoin price movements in the future. The model predicted Bitcoin values with a high degree of accuracy in both the short-term and long-term periods. The system also gave useful insights into market attitudes, assisting traders in making winning investment decisions. Overall, the established method has proven to be a useful tool for traders to use in order to learn about the Bitcoin market and make informed investment decisions.

**Keywords:** Machine Learning, Recommendation and Analysis Systems, Price Forecast, Data Science, Sentimental Analysis

### Subject Descriptors:

- Information systems → Information retrieval → Retrieval objectives → Recommendation Systems
- Information systems → Information systems applications → Data retrieval
- Computing methodologies → Machine learning → Machine learning algorithms → Ensemble methods