

ABSTRACT

Comparison of Accuracy of Support Vector Machine and K-Nearest Neighbor in Predicting Ethereum Price

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Cryptocurrencies are especially in demand by the new generation of traders. Cryptocurrencies are replacing conventional money in the future. Cryptocurrency was created as a solution to the constraints of the current payment system. One type of cryptocurrency is ethereum. Ethereum's financial analogy is the same as the stock market analogy, namely that price fluctuations are uncertain every second so that many new generation traders suffer losses. There is no algorithm for predicting prices on ethereum yet. The price of Ethereum can be predicted using machine learning algorithms. The purpose of this study is to predict the price of the Ethereum altcoin cryptocurrency using the Support Vector Machine and K-Nearest Neighbor algorithms. This research uses quantitative methods with data collection in the form of literacy studies and dataset collection. The data is divided into 2, namely train data and test data which is divided into a ratio of 90:10, 80:20, and 70:30. The accuracy results obtained by K-Nearest Neighbor have better accuracy than the Support Vector Machine.

Keywords : Cryptocurrency, Support Vector Machine, K-Nearest Neighbor.

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