CHICKEN EGG PRICE PREDICTIONS IN YOGYAKARTA USING THE NEURAL NETWORK BACKPROPAGATION METHOD

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ABSTRACT

Eggs are a food ingredient that cannot be separated from the daily needs of people in Indonesia. Yogyakarta Province is one that uses eggs as a food ingredient. The type of egg that people are most interested in is chicken eggs. This is because chicken eggs are easy to obtain at a relatively cheap price. However, the problem that occurs in the process of buying and selling eggs is price instability. This price instability is caused by high public demand which is not comparable to chicken egg production. The author built a chicken egg price prediction system which plays an important role in the process of buying and selling chicken eggs because it is useful for increasing profits and minimizing the risks accepted. This research will use 209 data on dates and prices of chicken eggs provided by the Yogyakarta Provincial government. To make predictions easier, the author applies the Neural Network Backpropagation method. This method is used because it can provide quite good results with a prediction accuracy of 85% with an error of 15%. Creating this system is useful for helping farmers, consumers and the government in predicting the price of chicken eggs, especially in Yogyakarta Province.

Keywords: Prediction, Price of Chicken Eggs, Neural Network, Backdropagation