

ABSTRACT

Indonesia, as a tropical country rich in food resources such as rice, corn, and soybeans, faces challenges in maintaining the stability and availability of vital food supplies for its population. Corn, as a food source, often experiences fluctuating prices due to various factors such as rainfall, demand, and issues with imports or crop failures. To address this, the government needs to develop more advanced methods for predicting corn prices. In this study, the use of Deep Learning with LSTM and SVR algorithms is proposed as a solution. By utilizing historical data and considering external factors such as previous corn prices, weather conditions, and government policies, the research aims to develop accurate prediction models. It is hoped that this method will assist policymakers and regulators in making more precise and effective decisions. Steps for optimizing model and data processing will be taken to ensure prediction effectiveness. This research is expected to contribute to the development of Deep Learning technology in the context of agricultural policy planning, particularly in managing vital commodity prices such as corn in Indonesia.

Keywords: *Deep Learning*, LSTM, SVR, Corn Price Prediction, Policy, Regulation