Forecasting System for Batik Fabric Sales Using the SARIMA Method

(Case Study Tatsaka batik)

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ABSTRACT

Tatsaka Batik is one of the largest batik industries located in Banyuwangi Regency, but there are several things that become a problem at Tatsaka Batik, namely the obstruction of production caused by the lack of raw materials when producing. This research aims to develop a batik cloth sales forecasting system using the SARIMA method at Tatsaka Batik in Banyuwangi in order to reduce the risk of production delays. This forecasting system can predict the sales of batik cloth in the future, the forecasting system using the SARIMA method gets an error value MAD (Mean Absolute Deviation) of 58.6931, MSE (Mean Squared Error) of 8073.462, MAPE (Mean Absolute Precentage Error) value of 5.017%. The results show that SARIMA is able to provide accurate forecasting because the MAPE value of 5.017% is included in the Very Good category..

keyword : Tatsaka Batik, forecasting, Batik, SARIMA Method, Mean Absolute Precentase Error (MAPE).