

## **ABSTRACT**

# **FORECASTING MAIZE YIELD THROUGH AVERAGE PRECIPITATION AND TEMPERATURE DATA USING NEURAL NETWORK**

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Agriculture is a field with many uncertainties. One of the source of those uncertainties are temperature and precipitation which could vary across season and year. Previous research by Matsumura *et al.* (2015) have attempted to build a model that could predict yield through precipitation. This research attempts to build a model that could predict maize yield before harvesting month with Adam and SGD as optimizers. The implementation made use of precipitation and temperature data to produce a forecasted yield of the harvest. The best model produced RMSE error of 2.100530353.

Keywords: Adam, SGD, Agriculture, Maize, Forecasting