

**THE IMPLEMENTATION OF *MULTILAYER PERCEPTRON (MLP)*
ON SYNOP ANALYSIS IN PREDICTING THE WEATHER
AT TEGAL METEOROLOGY STATION**

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ABSTRACT

Weather and climate are the physical states of the atmosphere formed through the interaction of various elements or components. These elements or components are called weather elements which include radiation or solar irradiation, temperature, humidity, air pressure, wind, and clouds. Weather elements referred to as synop data can be used for weather forecasts. One of the benefits in the field of aviation is to prevent aircraft accidents and determine flight schedules. In general, the method used by meteorological stations or BMKG to forecast the weather requires a very long time. Therefore, we need a simple method for making weather forecasts. One method is a neural network with many hidden or Multi layers Perceptron Layer (MLP) because it has a high level of accuracy and precision effectiveness in weather forecasting.

Keywords: MLP, synops, temperature, humidity, solar irradiation.