

DEVELOPMENT OF MACHINE LEARNING FOR DETERMINING SERVICE LETTER NUMBER CLASSIFICATION CODES

by Dr. Aris Nasuha, S.Si., M.T., Purno Tri Aji, M.Eng., Moh Alif Hidayat Sofyan, M.Pd., Septian Rahman Hakim, S.Kom., M.Pd.

ABSTRACT

Archives are records of activities or events in various forms and media in accordance with developments in information and communication technology. So far, filing numbering at Yogyakarta State University (UNY) has only been used manually. In some filings there are often errors in writing letter codes. This research aims to develop an automatic machine learning-based letter code classification model.

The development of this model was carried out using Research and Development type research using the SDLC (Software Development Life Cycle) method. The machine learning algorithm used is a Multilayer Perceptron type artificial neural network. The data used as training data are letters obtained from the Administration and Archives Department of UNY.

The resulting research is a letter code classification model based on Multilayer Perceptron with a 3 layer architecture. The best accuracy in the training process was 92%, while in the testing process the accuracy was 90%.

Kata Kunci: *letter code, Machine Learning, UNY*