

Abstract

Javanese script is one of Javanese tribe's culture that need to be preserve. But, the popularity of latin writing style makes learning and applying Javanese script more difficult. That is why created a Machine Learning model to help in classifying Javanese script especially in handwritten form. ResNet model is chosen for this research. The chosen model will only classify the 20 main script. However, there are 28 class from the dataset due to some script have a shape variation. To find out the best methode to solve the variant problem, two separate model are created. One model combine the normal and variant into one class and the other model separate normal and variant data. The result of this research is the model with normal and variant data combined have higher accuracy with 98%. When analyzing the testing result, it is found out that "Ha (V)" and "La (V)" class is the most prone to misclassification and the class targeted for misclassification the most is "Ya".

Keywords: Handwriting Classification, Javanese Script, ResNet