Abstract

In today's technological age, Neural Network is commonly used mainly for classification and recognition, but age and gender classifications still produce poor results, even age and gender classifications by voice are rarely done, hence to answering those problem we need the right approach to create a good age and gender classification model. one of the solutions is using Recurrent Neural Network which is made specifically for sequential like sound, one of the models of Recurrent Neural Network is Long Short-Term Memory. This experiment is searching for a good Long Short-Term Memory model and the right approach to predict age and gender based on voice. Experiments carried out 3 times with the Long Short-Term Memory model, the results are the Data Augmentation technique is the right step to make a good Long Short-Term Memory model that can predict age and gender based on voice even though the test results are still considered low.

Keywords: classification, voice, age, gender, LSTM