

Abstract

The development in the field of morphology shows a growing interest in analyzing morphology and has its own challenges to explore more deeply. In the field of linguistics morphology deals with the structure of words. This happens to Verb which are very complex in language which is rich in morphology. In this study, developed the level of accuracy possessed by the low, medium and high train size in English dataset using the encoders method LSTM because this type of model already has success in various machine learning tasks that require mapping from one sequence to another. The LSTM configuration method is used to produce the best accuracy in the dataset using parameters epoch and batch size. Verity evaluations that have been conducted, showing the best results by using hyperparameter on the epoch 800,1100,1350 dataset with values obtained results 73% accuracy for low size, 81% for medium-size, 96% for high size. Whereas in the second test with a value of epoch 500,700,1000,1250,1500 combined with batch sizes of 32 and 100 for each epoch. The results obtained an accuracy of 69.6% for low sizes, 82.8% for medium sizes and 96.7% for measure height.

Keywords: Morphology, Inflection, LSTM.

