

Speech Emotion Recognition Using LSTM Algorithm

Prof. Kalyani Zore, Sakshi Bhor, Shivani Bhujbal, Ankita Kadam, Vaishnavi Kale

Professor, Computer Engineering Department¹

Students, Computer Engineering Department^{2,3,4,5}

Genba Sopanrao Moze College of Engineering, Balewadi, India

Abstract: *The spoken emotions of people are frequently not recognized by machine learning algorithms. Applications that analyze voice emotions in real-time heavily rely on Speech Emotion Recognition (SER). It can be applied in a variety of situations, including human behaviour analyses and emergency centers. A new study topic that has now emerged is the detection and classification of emotions. Previous research has looked at a variety of emotional classification methods. Due to their excellent qualities, speech signals make a wonderful source for computational linguistics. And for this reason, a lot of professionals wish to be able to identify speech emotion. To determine emotion concentration in several blocks, a few LSTM-based optimal techniques are provided. By modifying the traditional forgetting gate, the technique initially reduces computation costs. Second, to get task-related information, an attention mechanism is applied to both the time and feature dimensions in the LSTM's final output rather than using the output from the prior iteration of the conventional method*

Keywords: LSTM Algorithm, Languages and Compiler, Classification, Verification, Mel frequency coefficients

