MUSIC GENRE CLASSIFICATION USING DEEP LEARNING ALGORITHM

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ABSTRACT

Music genres are a collection of descriptive keywords that convey high-level information a couple of music clip (jazz, classical, rock...). Genres are identified by some characteristics of music like rhythmic structure, harmonic content and instrumentation. While unlabelled data is quickly available music tracks with appropriate genre tags is incredibly less Genre classification may be a task that aims to predict genre using the audio signal having the ability to automatize the task of detecting musical tags allow to form interesting content for the user like music discovery and playlist creations, and for the contentprovider like music labelling and ordering. In this study, acoustic features of music have been extracted by using digital signal processing techniques and then using neural net, music genreclassification have been done. The dataset uses images of spectrograms generated from songs as the input into a neural net model to classify the songs into their respective musical genres. Conventionally, feature extraction relies on a proof processing front-end so as to compute relevant features from time or frequency domain audio representation. The features are thenused as input to the deep learning stage. In deep learning algorithm, we used Convolutional neural network to classify the music with improved accuracy rate. Experimental results shows that the proposed system provide improved accuracy in training phase.