M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

CONVOLUTIONAL NEURAL NETWORK FOR MUSIC GENRE CLASSIFICATION ON DIGITAL COMPOSITION

ABISHEK.K.K (17BEC3005)
HARIKRISHNAN.P (17BEC3059)
MADHAN.K (17BEC3097)

NAME OF THE SUPERVISOR : Mr.S.NANDHAGOPAL, AP/ECE

ABSTRACT

In this project we will present how to use Deep learning algorithm to build deep belief neural networks. The goal is to use it to perform a multi-class classification task of labelling music genres and compare it to that of the neural networks. We expected that deep learning would out-perform how- ever the results we obtained for 2 and 3 class classification turn out to be on par for deep neural networks and the with small data set. By generating more dataset from the original limited music tracks, we see a great classification accuracy improvement in the deep belief neural network and its out-performance than neural networks. Artificial neural networks have great potential in learning complex high-level knowledge from raw inputs thanks to its non-linear representation of the hypothesis function.

INTERNAL EXAMINER