

Student initiated project proposals

Department of Electronic and Telecommunication Engineering

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Index Number/s:	170497R
Single Year or Multi Year:	Single year
BME or ENTC	ENTC
Project Title or Problem Statement:	Generating a musical instrument's sound similar to a certain player's style
Supervisor	Dr. Chamira Edussuriya, Dr. Ranga Rodrigo
Major items	
Budget	
Motivation	

Project Description:

The idea is to develop a system which generates musical sound which has a similar style to how a certain reputed player has played that certain instrument.

eg: One of the most reputed violinists to have ever lived is Jascha Heifetz. We train a system with his instrumental music. Then if we give an input musical notation, the system generates a violin music which is played in the style of how Jascha Heifetz used to play.

This same idea can be extended towards singers as well. But considering the practicality, it seems better to proceed in incremental steps. If this system is developed successfully, it has the ability to revolutionize the music composing industry.

Several related research papers have also been found and is currently under study. This idea has already been discussed with the proposed supervisors and they have given their consent to supervise the project.

This project mainly involves **Music Signal Processing, basic music theory, Deep learning, Machine learning, Transformers** etc.