

## Project Idea: Predicting Synthesizer Parameters from Audio Samples

### Description:

Music producers dream of worlds with ultimate control and ease of simplicity in their sound design. Technological advancements in music production have attracted a large audience, and the availability of extensive libraries from platforms like Splice, Loopmasters, ADSR Sounds, and Cymatics have made it much easier for artists. Despite the insurmountable size of the libraries, the inflexibility of pre-recorded samples limits artists. Our project aims to revolutionize this process by harnessing the power of neural networks to predict synthesizer parameters from audio samples. This innovation will catalyze producers to customize and manipulate sounds with unprecedented precision, elevating their creative potential and transforming the music production landscape.