

Neural Network Final Project Overview

To Dos:

Category	Task	Status	Priority	Person	Notes
Data ▾	Data Preprocessing	In Progress ▾	1 ▾	Anthony ▾	Filter out rows for the ones we need
Data ▾	Data Gathering	Finished ▾	1 ▾	Sai ▾	Create 30-second song clips
Data ▾	Create Dataset Module	Finished ▾	2 ▾	Anthony ▾	init(); len(); get_item();
Data ▾	Separate Train/Test/Validate	Finished ▾	2 ▾	Anthony ▾	DataLoader();
Data ▾	Create experiment data	Finished ▾	2 ▾	Anthony ▾	Create Instrumental and Acapella Dataset
Data ▾	Create experiment data	Finished ▾	2 ▾	Sai ▾	Create Sped up reverb dataset
Data ▾	Chromogram, spectrogram, logspec	Finished ▾	2 ▾	Anthony ▾	Create indiv grams
Model ▾	Create ConvNet	Finished ▾	2 ▾	Jatin ▾	Create basic ConvNet
Model ▾	Add Generalizability	Finished ▾	4 ▾	Jatin ▾	Early stopping etc.
Testing ▾	Run	Finished ▾	3 ▾	Jatin ▾	Get Initial

Category	Task	Status	Priority	Person	Notes
	Testing				Accuracy
Testing ▾	Work with hyper parameters	Finished ▾	3 ▾	Jatin ▾	Improve Accuracy
Expe... ▾	Write Experiment s	Finished ▾	4 ▾	Sai ▾	Write Code for Experiment s
Expe... ▾	Adjust Experiment s	Finished ▾	2 ▾	Sai ▾	Look at what is currently possible
Report ▾	Write Report	Finished ▾	5 ▾	Jatin ▾	Paper
Report ▾	Create Presentatio n	Finished ▾	5 ▾	Jatin ▾	Presentatio n
Report ▾	Model Card	Finished ▾	5 ▾	Sai ▾	Create Model Card
Report ▾	Data Sheet	Finished ▾	5 ▾	Anthony ▾	Data Sheet

Links

<https://pypi.org/project/pysndfx/>

<https://www.mediahuman.com/youtube-to-mp3-converter/update.html>