

Testing a pre-trained CUT model

This document serves as a guide to running a pre-trained CUT model to convert clean speech data to RATS Channel A noisy speech. The model is trained to learn a mapping from clean to noisy speech spectrograms.

To successfully run the model in order to test out your own files, follow the instructions carefully:

Setting up the environment:

To begin, install the python requirements mentioned in the requirements.txt file, you may do so by running the following command:

```
pip install -r requirements.txt
```

from the CUT directory set as the working directory.

Prerequisites:

1. Python 3
2. CPU or Nvidia GPU + CUDA CuDNN

Setting up the files for testing:

The model weights and parameters are set already, and all that is left to do is set up your files (files you want to add noise to), to do so follow the steps given below:

1. Create a new folder "AudioData" in the "datasets" folder.
2. Inside "AudioData", create another folder – "trainA".
3. Place the files you want the noise added to, in the folder "trainA".
4. Now, with everything set up, run the following command to begin the generation process:

```
python test.py --dataroot ./datasets/AudioData --name AudioData --CUT_mode CUT --phase train --state Test
```

5. The results generated would be placed in a new folder named "results".

CAUTION:

Make sure you use **.wav** files and **mono(single)** channel.