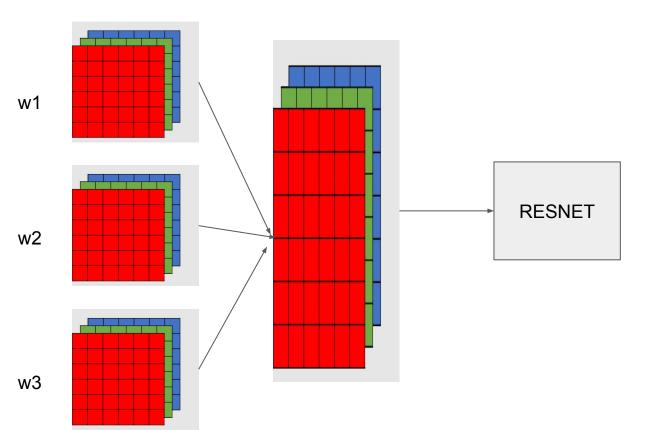
Minutes of the last meet

Modulation Spectrogram Approach :
 CV approach

 Multichannel input considering images with different window sizes.

Window sizes used in Extracting Spectrogram Images from Audio

Multichannel approach using 3 Images with Different Window sizes



STACKED OVER AXIS 0

NEW INPUT DIM:

(1440, 640, 3)

PHQ 8 Dataset

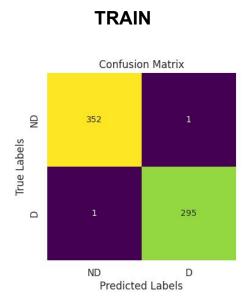
Window sizes used this week with the new data set

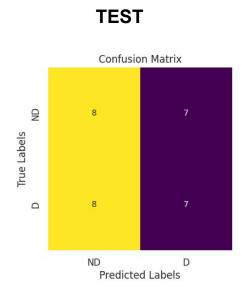
- 25ms
- 400ms
- 800ms

RESNET 50

TRAIN ACCURACY: 99.69

TEST ACCURACY:

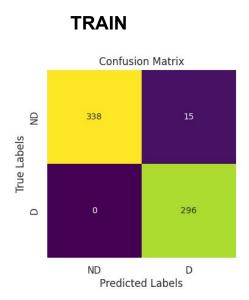


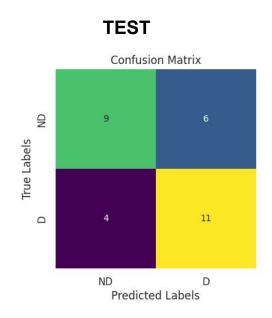


RESNET 18

TRAIN ACCURACY: 97.68

TEST ACCURACY: 66.67

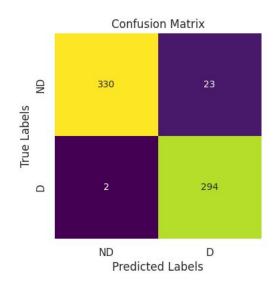


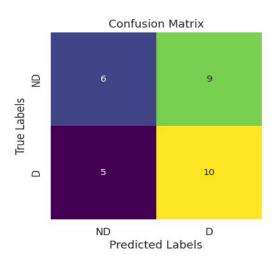


Vision Transformer

TRAIN ACCURACY: 96.1

TEST ACCURACY: 53.37

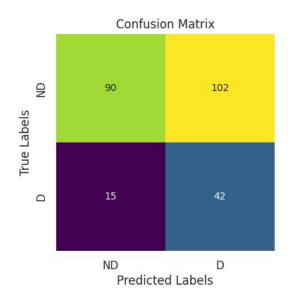


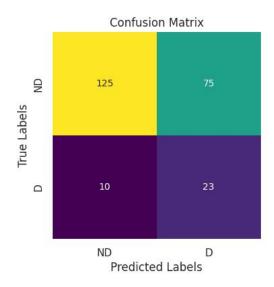


Vision Transformer

EATD Dataset
TRAIN ACCURACY:
63%

TEST ACCURACY: 53.37





Summary and Future work

- Resnet152 performs no better than other 2 models
- Above 3 seconds dataset (19 GB)
- Images are generated, needs to be trained and tested on GPU
- Vision Transformer