

Emotion Detection

Spectral features

- Mfcc
- Melspectrogram
- Other features like stft etc

Rhythm features

- Tempogram

Feature Extraction:

- Librosa
- Mean
- PCA



Models

Machine Learning Models

- Traditional models SVM, Random Forests
- CNN

Data Distribution

- Skewed
- 2 classes(A, S: N, H)

CNN

- Melspectogram
- Two initial CNN layers
- Pretrained mobilenet

NN with melspectogram and PCA:

- Concat PCA features with NN
Global Average pooling
output