

Assignment 10

Problem Statement

Auto Encoders in Speech Recognition

Data:

Please refer to the Assignment 2 data section.

Task:

1. Build the CNN model using MFCC and mel spectrogram features.
2. Do a comparative analysis on logistic regression model and CNN model.
3. Build the autoencoder for happy audios, and compare the loss for sad audios through the autoencoders.
4. Build variational autoencoder for the same data.
5. Which model performs well? Comment.
6. Publish your work in the Kaggle.