SYNOPSIS OF THE PROJECT

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Project Title	Speech Emotion Recognition

Description of Project:

Human communications have come a long way from cave drawings to sophisticated internet media. Emotions are conveyed by all humans in one way or another but speech remains most crucial of all as it is the most natural and convenient method to convey our feelings. Speech usually contains two types of information, paralinguistic and linguistic. Linguistic information conveys language, accent, dialect and paralinguistic information conveys emotional state, context, gender, environment and attitude thus using paralinguistic features is beneficial as it really helps to understand the emotional state of the speaker but each language has its way of expressing feeling irrespective of the speaker and its interpretation is also subjective.

This project use Neural Networks to classify the emotions from a given speech, known as Speech Emotion Recognition (SER). It is based on the fact that voice often reflects underlying emotion through tone and pitch. Speech Emotion Recognition helps to classify elicit specific types of emotions. The MLP-Classifier is used to classify the emotions from the given wave signal, which makes the choice of learning rate to be adaptive. The dataset used will be RAVDESS (Ryerson Audio-Visual Database of Emotional Speech and Song dataset). The features to be extracted from the fed audio input will be enthralled by these five parameters which are as follows, MFCC, Contrast, Mel Spectrograph Frequency, Chroma and Tonnetz.

Front end and Backend Tools	Front end: html, css, javascript Back end: python flask

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