# Speech Emotion Recognition

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### **Emotion Detection**



**Emotion Detection** 

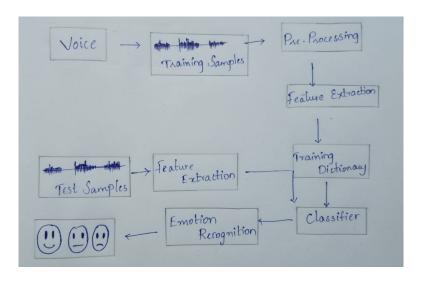
### Introduction

Speech Emotion Recognition is the act of attempting to recognise human emotion and affective states from speech. This is capitalizing on the fact that voice often reflects underlying emotion through tone and pitch

#### Libraries

- Using Librosa, we can analyze audio and music
- The Soundfile and Sklearn to bulid a model using MLP classifier
- RAVDESS dataset ,this is the Ryerson Audio visual database of emotional speech and song dataset

### Flow Chart



### Task

- Make the necessary imports
- Extract features from Sound file
- Define a Dictionary to hold numbers and emotions available in data set
- Loading the data
- Spilt the data set into training and testing sets
- Initialising the MLP classifier
- Training the Model
- Calculating the Accuracy of model



### Tech Stack

- Python 3.8
- Jupyter
- Libraries Librosa, Soundfile and Sklearn
- Dataset RAVDESS

## Learnings

- LaTex
- Gitlab
- MLP Classifier
- Python set and Booleans

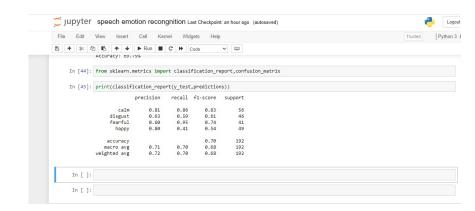
# challenges

- MLP Classifier
- Extracting Features from Soundfile

### Reference

- https://www.kaggle.com/shivamburnwal/speechemotion-recognition
- https://medium.com/@karmoaditya/recognizingemotion-from-speech-using-machine-learningand-deep-learning-2e1c8f2d3b1d

### Output



### **Teammates**



#### **THANK YOU**