Emotion recognition from speech model

Explanation

- I downloaded my dataset of speech from Kaggle for model building. Then followed by importing
 important modules like NumPy, pandas, matplotlib. pyplot, librosa.display, IPython.display,
 keras.utils etc and then imported dataset.
- Then I filter the data by removing non-required rows and highlight the angry, happy, neutral and sad gestures.
- Then I performed Exploratory data analysis and plotted wave plot and spectrogram for each emotion along with the audio path for visualization.
- Then I perform feature extraction part using **MFCC** and apply it to the dataset for feature extraction and convert it into **NumPy** array followed by performing hot encoder.
- Then comes the final part of model building, for that we import LSTM model from keras. We
 perform training on LSTM model and fit our model with validation split of 0.2

Challenges I Faced

- First issue I faced while importing dataset because it was in .wac format.
- Then while plotting wave plot and spectrogram I faced an error of converting the dataset into NumPy array. It takes lot of time to recognize this error.
- While modelling I faced error in sequential LSTM because of summary part.