Can the Computer Recognize Your Emotion??

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Inspiration:
Drawing upon previous education experience studying speech patterns and emotions; desire to apply our new found data analysis and visualisation skills to take a deeper look and gain new insights into the specific features that make varying emotions sound different.

Project Details:

1. Download audio files from RAVDESS & extract features and load them in Postgres DB.
2. Use machine learning to create models .
3. Use Parselmouth to extract the feature (Intensity,Spectrogram,Jitter,Shimmer,Pitch etc) and use Plotly to display them.
4. Bootstrap/HTML/CSS/Js for interactive visualization.
5. We would like to do following analysis once we have completed our model:
    a. Python library-librosa for Speech Analysis Vs. our model.
    b. Manipulate features and recreate speech with librosa.

Data Link: The Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS)

Github Repo Link: https://github.com/sundaritk/Project-Final