CS6300 - Speech Technology: Laboratory 3 & 4
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1. Compute the spectrum using Linear Prediction analysis.

2. Extract formants, and plot the formant contours.

3. Perform VAD using zero crossing rate and short-term energy.

4. Extract pitch using autocorrelation method or cepstrum method after performing VAD.

5. Record a male and female voice for the sentence "We were away a year ago." Compute the spectrogram, perform VAD, extract formants and pitch. Overlay the formant and pitch curves on the spectrogram.

6. Extract features using the code provided for the digits (single digit) database given. Divide the dataset into train and test. Additional credit – experiment with your own code. Identify test digits using dynamic programming.