

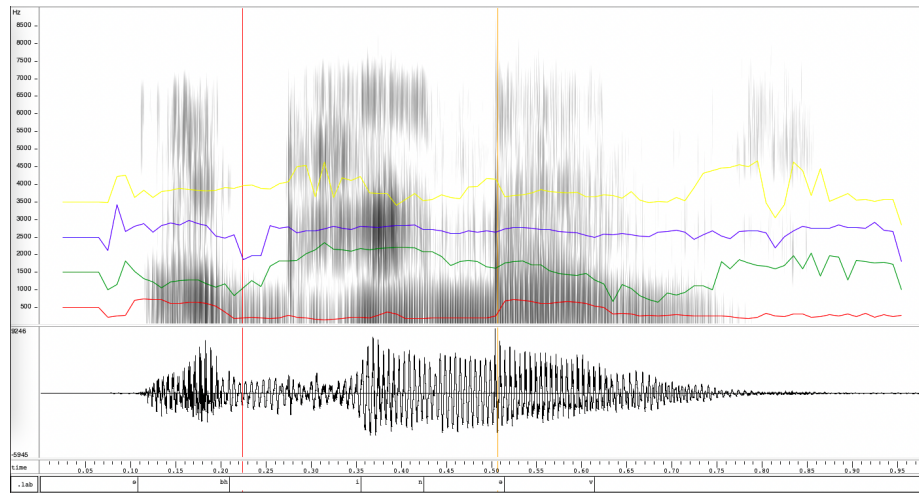
Digital Signal Analysis (CS7.303)

Spring 2022, IIIT Hyderabad
Assignment 4

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Observations

The name “Abhinav” was recorded and analysed using WaveSurfer. The waveform, spectrogram and formant plots were generated. All these panes can be seen in Figure 1.



- The formants match approximately with expected F2 values of vowels. We can observe formants at 3.5kHz (/i/) and 1.5kHz (schwa). The F1 value of the latter, 500Hz, is also visible. However, the other formant, 2.5kHz (/e/) is not observed in the word.
- It is difficult to separate the consonants from the following vowels, *e.g.*, /bhi/ and /na/ are hard to break up. This could be because of the coarticulation process.