

After applying the Butterworth filter, I observed that the higher frequency components of keystrokes were eliminated by the filter. Also when the next keystroke begins there were no frequency components from the current keystroke. The Keystrokes and the background noise are subduded in the audio. When I decreased the cutoff frequency to 2000 Hz, the higher frequency components were reduced and I observed there were mostly yellow and orange lines with very less number of purple lines. When I increased the frequency to 5000 Hz, there were significant number of purple lines on the spectrogram.