Frequency Extraction

File Name

Frequency Extractor using FFT (100% work but not filtered)

Description

- Reading the wav files using (wavfile) from scipy.io library to read the file and extract the two major things to measure the frequency (frame rate – data) the data variable is the one that will be applied the fast Fourier transform algorithm (FFT) but firstly it will be needed to sett the data variable as a numpy array to make it easier further estimations as minimum & maximum value in addition to argmax after applying the fft algorithm on the data variable which contained the data we will extract the argmax of the data and use it as an index in the fftfrequency array and call it freq at the end the frequency equation = (fftfrequency * frame rate(which we got at the first)).
- Explanation of the FFT

Comments

This python file stated above is working perfectly on one condition the frequency value is high than a normal frequency due to it is not filtered data so it measures the frequency but not that perfect accuracy.