Time-Domain Feature Extraction per Window per Channel

For each window of 2560 samples from each channel (AF7, AF8, TP9, TP10), extract:

Feature Description

Mean Average value

Standard Deviation Signal variability

Skewness Asymmetry

Kurtosis Peakedness

Zero Crossing Rate # of sign changes

Line Length Total waveform length

Hjorth Activity Variance

Hjorth Mobility √(variance of derivative / variance)

Hjorth Complexity Change in frequency

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Im going to use the window size of 10, cuz if i used 2560 samples.. when the last window of the segment has less than 2560 samples then it will drop all the samples.. so its a loss of data..

When i use 10 seconds of window then , it will be easy.. because in each csv 180 seconds so 18 segments..