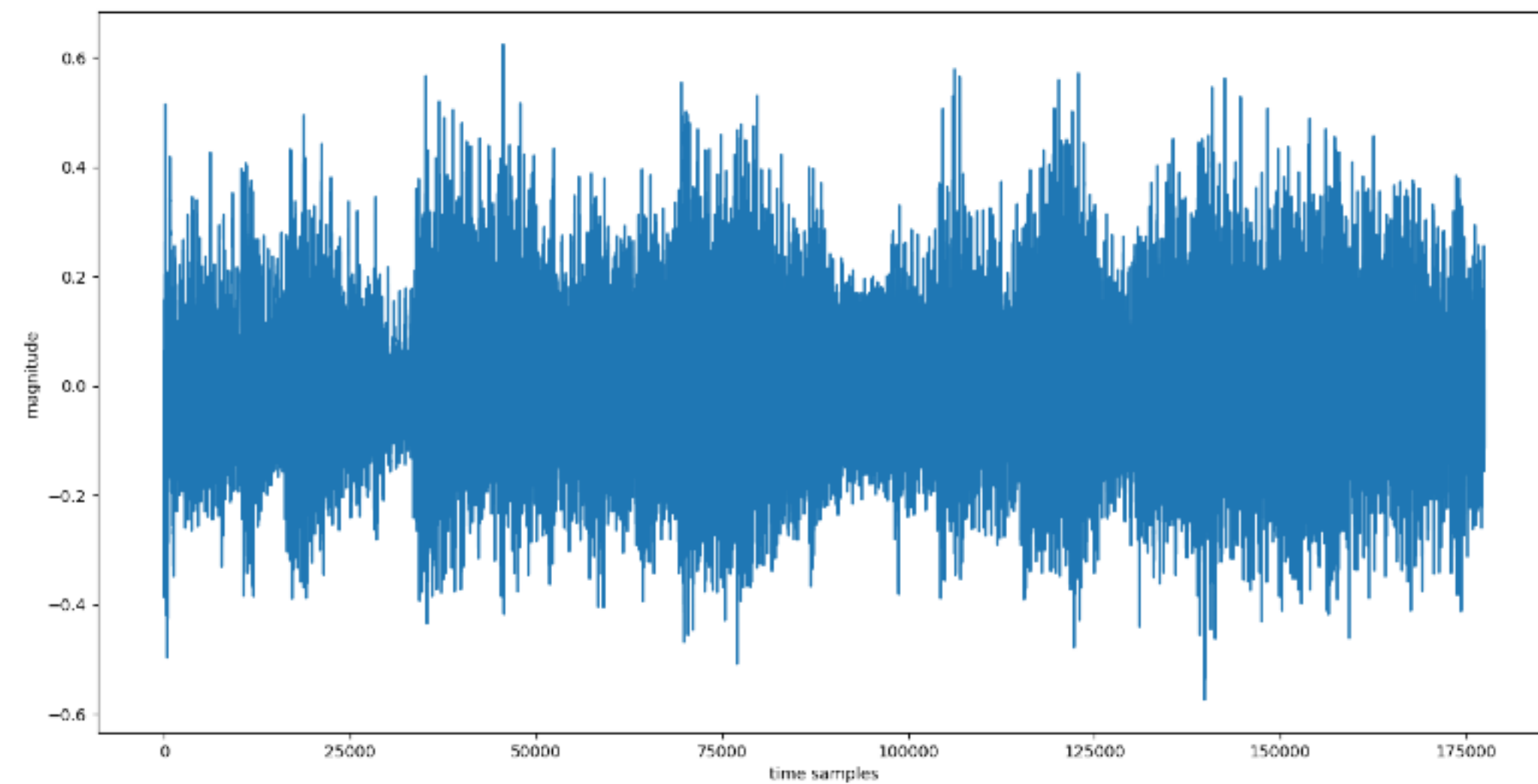


Motivations

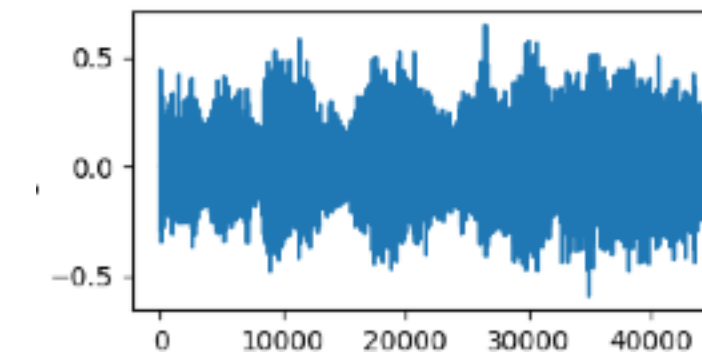
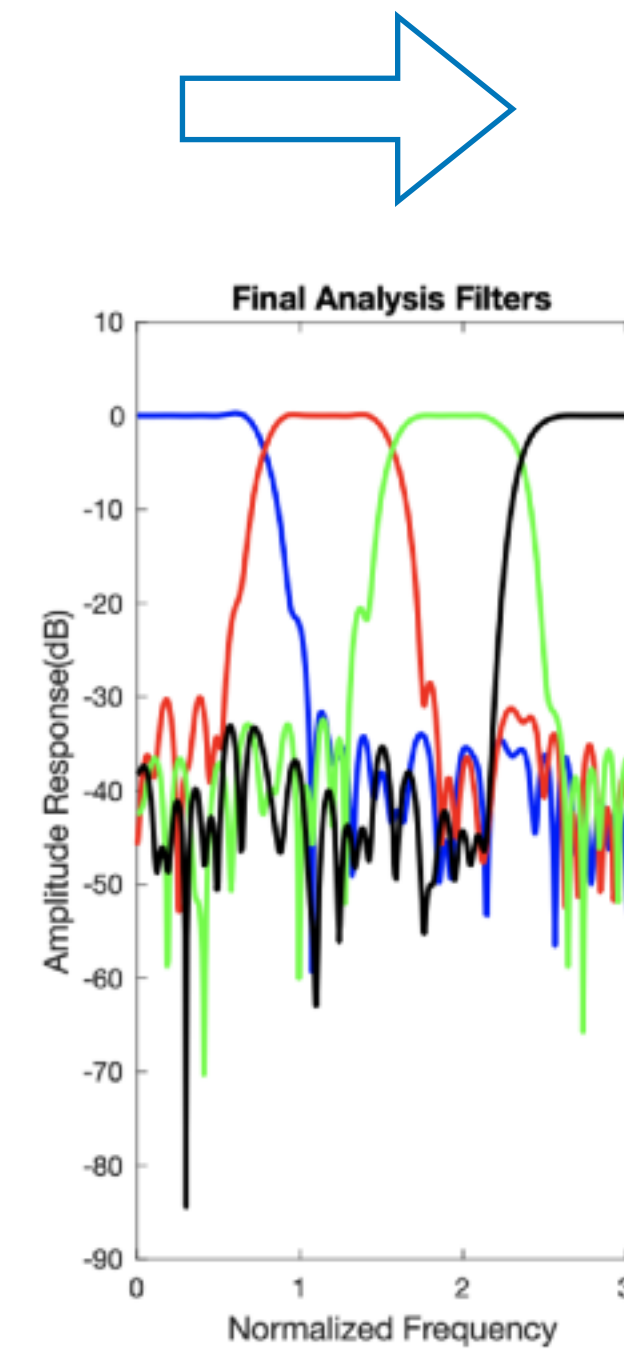
Channel-wise subband feature

- What's subband decomposition?

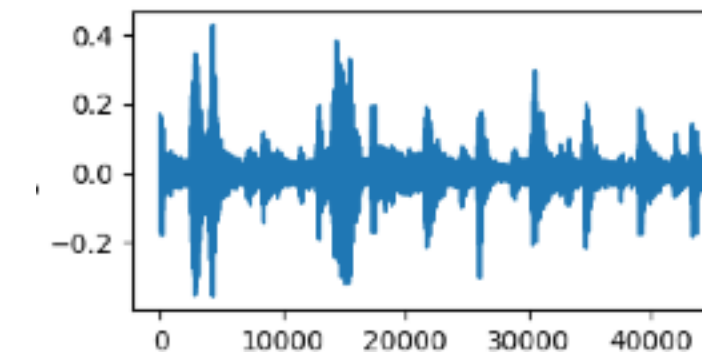


Sample rate: 44100

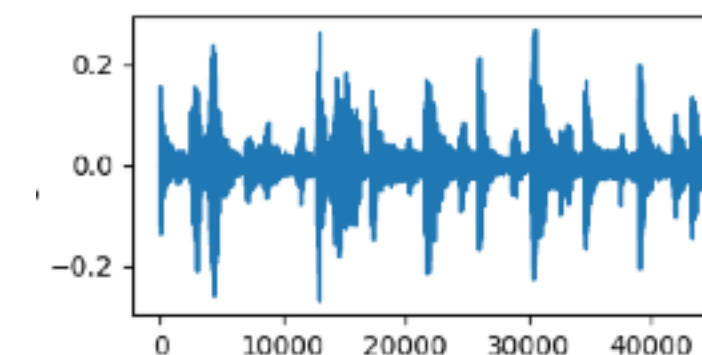
Convolution with four filters
&
Down sampling $\times 4$



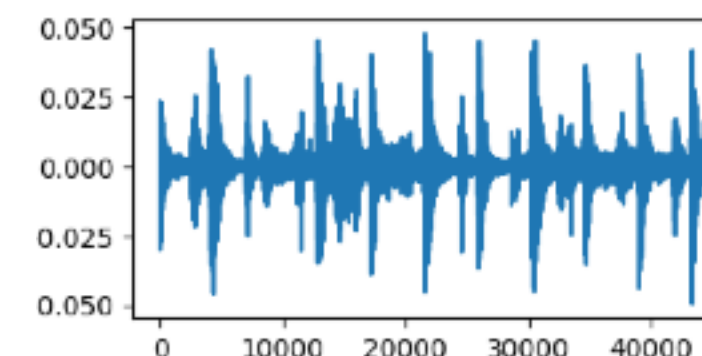
Subband 1



Subband 2



Subband 3



Subband 4

Sample rate: 11025

Motivations

Channel-wise subband feature

- Why subband decomposition?
 - Original data is high dimensional.
 - Unbalanced information in each subbands.
 - More flexibility for modeling.
 - e.g., Channel-wise subband

