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EEG

Data preprocessed by performing **line noise removal**, **robust referencing**, and **bad channel detection/interpolation** using PyPrep pipeline. First, the pipeline applies a notch filter at 60 Hz and its harmonics to remove power line noise. Then, it performs **robust average referencing**, where it detects bad channels, interpolates them using surrounding signals, and computes a median-based reference across EEG channels. This ensures a stable reference even in the presence of noisy electrodes. The final output is a cleaned EEG dataset with a consistent reference, ready for further analysis.