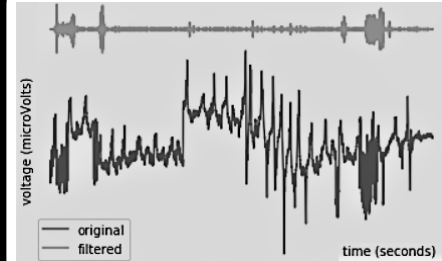


EEG Impetence

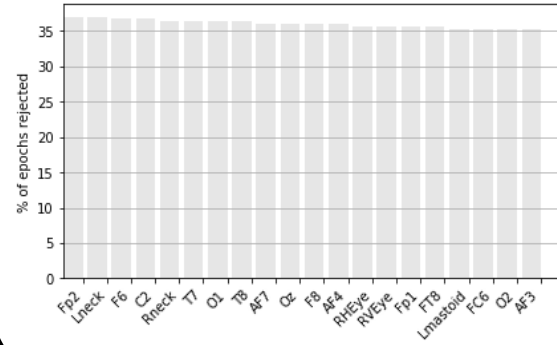


EEG Data collection

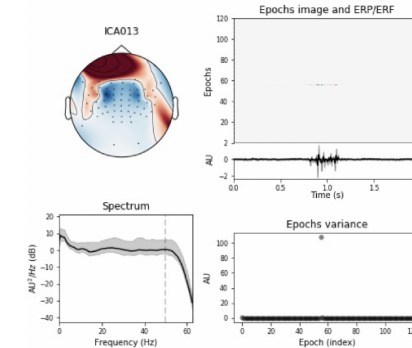


$$z[k] = \sum_{j=0}^N a_j x[k-j]$$

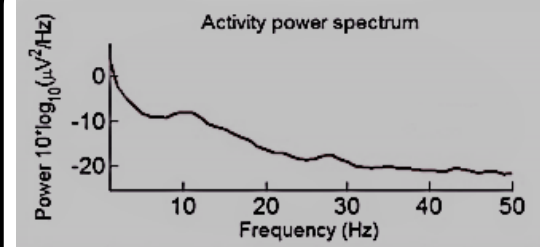
Signal Filtering



Epoch rejection



**Artifact rejection
using ICA**



$$\text{Relative } \alpha\text{-Power} = \frac{\sum_{i=8}^{12} \text{Power}_i}{\sum_{j=1}^{45} \text{Power}_j}$$

**Power Spectrum
Density**