Inner Speech Dataset :-

① 128 Active EEG channels and 8 external active EOG/EMG channels with a 24 bit resolution and a SR - 1024 Hz

② Ex G1 (L) Ex G2 (R) → lobe of ear

Ex G3 (L) Ex G4 (R) → temples, Horz eye moment

Ex G5 Ex G6 → Vertical Eye movement

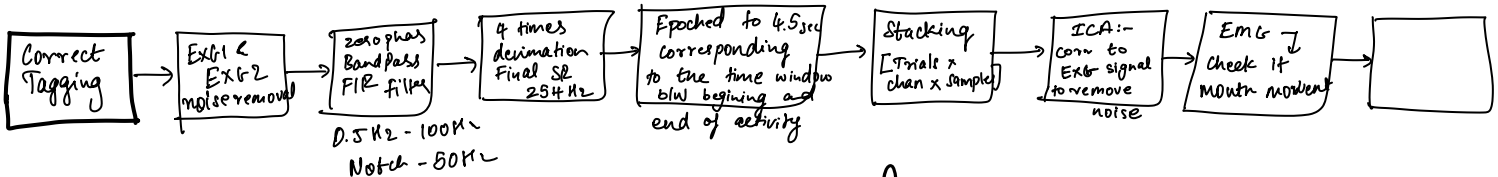
Ex G7 Ex G8 → Capture mouth movement.

③ A digital low pass was only used, 208 Hz.

④ bdf → 128 EEG, 8 external channels, and tagged events.

⑤ Spatial twinning → occipital and parietal regions.

⑥



1128 → pronounced

2236 → inner speech

2276 → visualized condition trials

(7.) Events dat file

Sample	Trial's class	Trial Cond	Trial Session
Sample at which event occurred.	0 - V 1 - D 2 - L 3 - P	0 - pron 1 → Inn 2 → visual	1 2 3

(8.) Sub 3 → Session 3
Sub 8 → Session 2
→ Highly contaminated

(9.) Event Related Potential → Section to understand the start of the section.

(10.) Time Freq. Representations :-

Inter Trial coherence, → more in pronounced speech than other cases.

(11.) Figure 8

the freq above 50 Hz is of no use, filter out the freq above 50 using low pass filtering

(12.) Figure 9 → the study suggests only use the lower [x] region.

[0 - 15 Hz]

↳ calculated using A4, A5, A19, A20 and A32.