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Analysing emotions in speech signals through EEG brain images

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The major objective of this research is to detect the variation of emotions appeared in speech signals using EEG brain images. The area of brain (Motor cortex, Broca's area, Wernicke's area and Glia cell) are responsible for speech and various speech disorders. The prefrontal, frontal, temporal lobes, are responsible for speech, emotions, planning, thinking and many more such tasks, these differences in brain regions are seen during the experiments. The task paradigm was designed to acquire speech and EEG signal simultaneously. The database for 10 subjects was studied. The acoustic features like pitch, energy and intensity were calculated using PRAAT software, for analyzing EEG images, active brain electrodes and active brain area are being calculated using non-invasive RMS EEG 32 channel 19 electrode machine. This study will be useful in research areas like emotion recognition, understanding speech and language disorders with the help of EEG images.

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