

ABSTRACT

Technological advancement over the last few decades has developed the concept of BCI (Brain Computer Interface). This is concerned with the people who are suffering from mental disorders like Autism, stroke, paralysis and other brain related disorders. These kind of patients fail to express their feelings. Autism patients suffer from behavioural changes in which sometimes they get too furious and it becomes difficult to control them. This product captures the EEG signals like alpha, beta, gamma, delta, and theta. Since EEG is a high cost diagnosis and cannot provide continuous monitoring of patients. Our product is a low-cost and provides the continuous monitoring of the patient. Even stroke and paralysed patients cannot even move their hands or legs, this product helps them to express their feelings.

Here we are capturing the EEG signal using NeuroSky MindWave mobile and visualising the variation of brain signal with the help of MATLAB. The data obtained is converted into semi-structured data format. This can be stored, analysed and processed in many useful ways.