

## **Project Related Information: IT**

**Project ID: 1**

**Project Name: Making Humans Emotionally Intelligent by Classifying Emotions**

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**Status: On going.**

**Project Abstract:** Understanding mind and emotion has been a fascinating area for researchers. Understanding emotions and linking them with mind may help us in many ways such as the development of devices for disabled people, to understand another person better emotionally and improving human to human interaction etc. This can also help us in understanding emotional needs of a person at a particular point in time due to change in circumstances and how to satisfy them. This project which is a subpart of Brain-Computer Interfaces (BCI) research, has a wide range of applications. In our project, we are focusing on the study and analysis of human emotions using several types of parameters such as facial orientation and representation, sensors related signals such as EEG signals. Methodologically, the participants will be exposed to various stimuli media such as text, audio, video and their emotional state would be judged in real time using the developed model which further may be extended by adapting the stimuli with user preferences. For example, if the subject is sad and in general wants to be happy as we all do and subject liked Spiderman: Homecoming movie using past data set then the stimuli may be changed to similar superhero clips and adapting until the system judges that subject is happy. The model may also be combined with existing facial-feature recognition based emotion classification systems to develop an integrated hybrid system outcome of this project has many applications which will change the way we live life and behave emotionally with other human beings and objects.

