**REAL TIME FACE EMOTION DETECTION**

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ABSTRACT: - In this modern era now it is possible that a computer can understand the real time human facial emotions and expressions. In order to get the practical realization; we have implemented an emotion detection algorithm for detecting the real face expressions or emotions by video captured. Open-CV based face detector first detects the faces available in the video then emotion detector algorithm recognizes the facial emotions in every frame of the video. The facial features are identified by different operations available in Open-CV packages. The face regions consisting of various parts which are identified as contours. The region, enclosed by the contour is used as an input to the Convolutional Neural Network (CNN). The CNN model created consists of six activation layers, of which four are convolution layers and two are fully controlled layers. In addition to various standard emotions detection, we have also computed the accuracy scores for the level of emotions. Finally we have validated our results with the ground truth data.