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The word "expression" suggests intent. The term "express" can be connoted as implied or imputed within. An emotion might be just a glance at someone's face which denotes ... View more

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The word "expression" suggests intent. The term "express" can be connoted as implied or imputed within. An emotion might be just a glance at someone's face which denotes a reaction. Reaction brings expression. In other words, expressiveness by someone refers to the way of communicating one's feelings. According to research and surveys, humans use 55-57 percent of body languages, 38 percent of tones or tonal variations, and the rest as words to convey meanings in messages for communication. It is also a proven fact that a significant part of the expression is in the form of nonverbal communication. There is sufficient evidence in psychology, pharmacology, and other fields to justify the same. Humans generally communicate through verbal expressions in response to inputs received, which is essential for our daily lives. However, word meanings can sometimes be challenging to detect the purpose accurately thereby necessitating good face recognition. Therefore it would be prudent to have face recognition made automatically and also effectively. In the present study, a facial emotion detection system seems to work correctly. The paper combines A.I. with image processing for such detection. Here Face-recognition software may be able to show the emotions that were captured by a camera. This article offers features related to this detection that has a over 90% success rate. The COVID-19 pandemic redefined the safety protocols of industries necessitating strict adherence to 'wearing face masks while at work'. The method shown in the paper can thus be used to ensure strict adherence by all employees in the new normal scenario evading any verbal instruction for such compliance.

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I. Introduction

The Coronavirus pandemic has altered the social, economic, healthcare and technical environments [1]. On the one hand, many have lost loved ones due to illness, but, on the other hand, the situation has taught us all to practice good habits. Everyday living has changed, from technical aspects to social. People in India used to be unconcerned when they observed someone sneezing or spitting in public and did not use sanitizers or masks. Nevertheless, it has all become second nature to us now. Since there are no vaccines or therapies for this virus, specialists, doctors and scientists have tried to devise protocols to prevent the virus from entering the human body. The World Health Organization (WHO) has created and approved healthy living guidelines and recommendations [2]. Wearing an appropriate mask is one such regulation, practiced worldwide [3] [4]. Hong Kong, in particular, ameliorated stringent and longest standing regulations in this regard only recently, on 28th February, 2023. The observer is, however, quite accustomed to seeing doctors wearing masks during operations. Apropos, who knew it would become our constant companion! Such sea change did occur. In India we have only had this protection on a mass scale since early 2020. Though the immunization program is fast underway, it does not mean we can afford to forget the use of masks and sanitizer any time soon. So, regular usage of masks is necessary. Unfortunately, many people in India do not follow the guidelines. They are seen not even wearing a mask. Even if they wear the same, it is either on their chin, ear, or below the lips. Assessing how many people are unaware of the need to wear masks properly is rather arduous. Some are apathetic about the sickness and have dismissed it from conscious living. Even if they accept it in their minds as inevitable, physical non-adherence to it may cause serious harm to themselves and others. It is not a healthy practice, and it has the potential to spread the infection rapidly.

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