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Confidence Detection using Machine Learning

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Abstract: Lack of Confidence is considered as people who have low confidence level or at a level that is not inadequate to face many challenges and obstacles in life. Contrary to those who have high confidence, someone with low self-confidence has a huge obstacle in itself when attempting to reach success. It is an issue with which scores of people are grappling today. Stemming mostly from negative experiences and encounters, it causes hindrance in enabling one to become successful and live a fulfilling life. We don't give that much importance to these constraints, so we fail every time. This app will help people know how much confident they are so that they can improve themselves to be at their best and achieve great success one wants. We will recommend what changes you must adapt to improve confidence. We will get the audio data and visuals as input and by testing it we will tell you the confidence level of person. Then if the confidence level is below 75%, we will recommend some course or exercises to the person to improve their confidence level.

Keywords: Confidence detection, facial expression, Microsoft Kinect for 3D face modeling, MFCC features, CNN algorithm.

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