IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 3, November 2022
Impact Factor: 6.252

# Emotion Based Music Player

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**Abstract:** *A novel approach that provides, the user with an automatically generated playlist of songs based on the mood of the user.Music plays a very important role in human's daily life and in the modern advanced technologies.The difficulties in the creation of large playlists can overcome here.The objective of this project is to detect emotion and select music to be played based on the detected emotion. Music or songs can be a powerful tool to describe human emotion here in this project is a trial to build a powerful tool that can help the user to play music based on stated emotion or detected one. Finally, results from testing the app using live captured images and to detect the emotion and select music accordingly are presented. The methodology of solving this problem is to build a fully functional app (Front End and Back End) that solves this problem, starting from the front end there an easy and understandable interface anyone can use, this interface is fully connected to the back end. A fully functional app that built to solve this problem (Desktop Only) which trained with different states of emotions (Happy, Sad, Angry, and Normal) with a very high accuracy rate which is "85%" for training and "83%" for testing rate, the application is successfully suggesting music by suggesting single songs that fits any user's emotion.*

**Keywords:** Music Player, Emotions, Happy, Sad, Automatically, Playlists

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