PROJECT TITLE

**EMOTATED MUSIC**

**[TEAM 2, 12th June, Machine Learning]**

TEAM LEADER:

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TEAM MEMBERS:

1. Kirti Choudhary
2. Prithvi Singh Kachhawa
3. Mili Agrawal
4. Abhijit Gehlot
5. Uzma Khan
6. Nitish Sharma
7. Vedanshi Arora
8. Bharat Singh
9. Susmit Kumar Shaw

INTRODUCTION:

This project is being created to help humans deal with their emotions. First, the face is detected in the image and then the emotions are classified according to the seven classes of the emotions based on the facial expressions.

* Anger
* Disgust
* Fear
* Happiness
* Sadness
* Surprise
* Neutral

As music is the best way to connect to the emotions, as per the mood of the user music will be played in the Wynk music website on the Chrome browser of the user’s system.

TECHNOLOGIES USED:

* Pygame (for graphical interface)
* OpenCV (for inculcating computer vision)
* Haarcascade classifier (for face detection)
* FER2013 dataset (model training purpose)
* Xception (model for emotion classification)
* Selenium (for automated music)

MODULES OF PROJECT:

1. Graphical Interface
2. Face Detection
3. Face Expression Classification
4. Music Automation

ROLES OF THE TEAM MEMBERS:

* Graphical Interface: Vedanshi Arora, Bharat Singh
* Face Detection: Mili Agrawal, Abhijit Gehlot
* Face Expression Classification: Prithvi Singh Kachhawa, Kirti Choudhary
* Music Automation: Kirti Choudhary, Prithvi Singh Kachhawa
* Installation and Environment Setup: Prithvi Singh Kachhawa
* Documentation and Report: Kirti Choudhary, Mili Agrawal, Vedanshi Arora
* Presentation: Susmit Shaw, Uzma Khan, Nitish Kumar
* Research: Kirti Choudhary, Prithvi Singh Kachhawa, Mili Agrawal, Abhijit Gehlot, Uzma Khan, Nitish Sharma, Vedanshi Arora, Bharat Singh, Susmit Kumar Shaw