

# PROJECT PROPOSAL

Name – S. Sabesan

Index No – 160538L

1. Title of the project: Face Classification System
2. Overview of the Project

## What is the project about?

Real time face emotion detection system to classify the emotions in given face imagery. Emotions can be deducted by facial reactions and mouth moments. Every single man can deduct other person feelings through the facial expression. Having this concept as a basic we can computerized the deduction activity this the purpose of the system Eg: happy face, sad face etc.

## What are you going to develop?

An emotion classification system which captures the human emotions through imagery and video retrieval system to fixed his/her terrible emotions.

## Input and output of the proposed system.

Input : face Image of a person.

Output : Text of Identified emotion. E.g. Happy face, Suggestion for videos

3. Objectives of the Project

The objectives of this project is to design and implement a mobile app to classify the emotions of captured image.

4. The Need for the Project

This project can be embedded in to systems such as e-learning platforms, autonomous driving systems e-commerce applications, medical applications etc.

5. Scope of the Project

This project consists of 3-main modules

Mobile App :- To capture/upload face image and display result to the user.

REST API :- Intermediate REST API which communicate with Microsoft Emotion API and Android Mobile app

MySQL Database :- Consist of Youtube links according to the feelings.

6. Deliverables .

This is an android mobile application which can classify facial emotion and suggest video links to fixed his terrible emotions.

Intermediate Communicator Module (REST API).

Database consist of Youtube links

## 7. Overview of Existing Systems and Technology

Microsoft has an API to detect Facial expressions called Emotion API. This has to be used for each sample of the real time feed.[1]

App store has an app. This app focused on helping kids read body language and understand emotions by looking at gorgeous pictures and figuring out which person is expressing a given emotion.[2]

Yale center has been developed a Mood meter for all people and especially for children. It help to concentrate the kids education.[3]

There are 15 apps to help kids control their emotions.[4]

### References

[1] azure.microsoft.com, [Online]. Available:

<https://azure.microsoft.com/en-us/services/cognitive-services/emotion/>

[2] itune.apple.com, [Online]. Available:

<https://itunes.apple.com/us/app/touch-and-learn-emotions/id451685022?mt=8>

[3] ei.yale.edu, [Online]. Available:

<http://ei.yale.edu/mood-meter-app/>

[4] www.smartappsforkids.com, [Online]. Available:

<https://www.smartappsforkids.com/2015/03/top-15-free-apps-for-learning-emotions.html>