University of Asia Pacific

Department of Computer Science and Engineering

Thesis (CSE-400)

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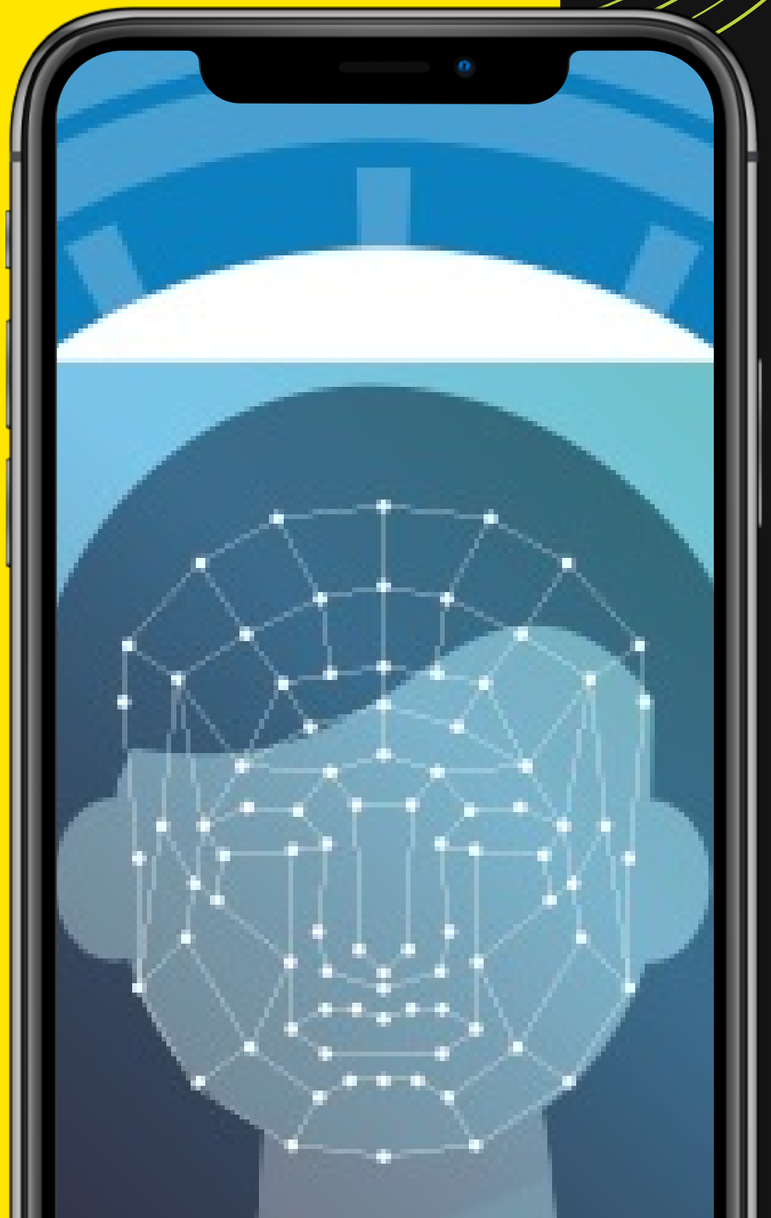
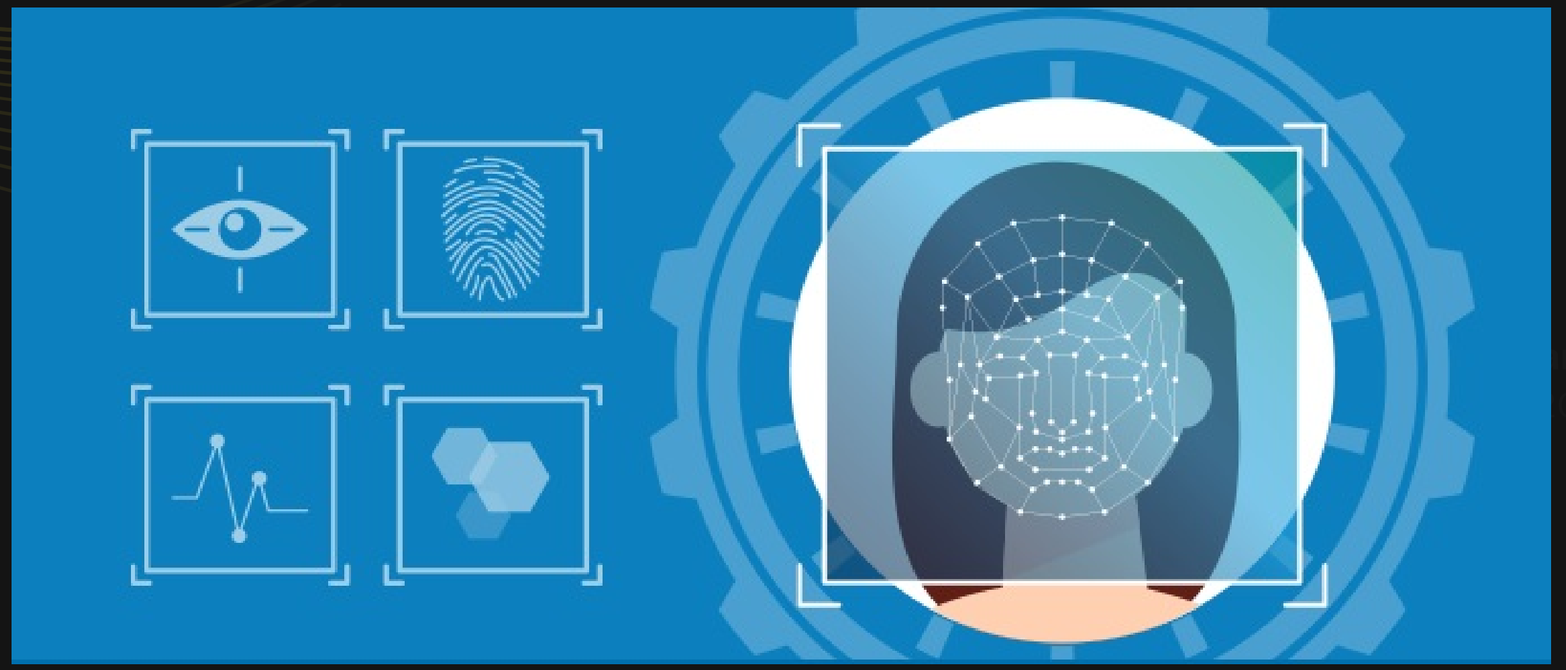


Project Proposal

Primary idea discussion

Emotion Monitoring Based on Face Recognition



Team Members

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Project Github link : https://github.com/AhnabShahin/Emotion monitoring

Highlights

- Decrease in happiness has been observed during confinement due to COVID-19.

- Recognition of sadness obtained a significant increase during confinement due COVID-19.

- Confinement has implications for mental health and emotional and social functioning.

Motivation

The COVID-19 pandemic resulted in more than half the world’s population being placed in lockdown to stem the spread of the virus. The severe restrictions imposed in many nations had the potential to significantly influence the physical and psychological well-being of those affected. These can affect people's emotion because, due to isolation, interactions and social contacts have been drastically reduced.

Objective

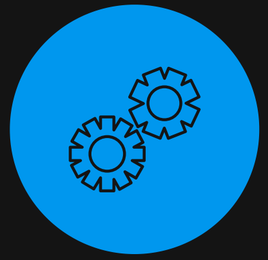
The objective of Facial Emotion Detection (FED) is to identify the emotion of a human face. That is given a face of a human web base system (ratio) has to automatically identify the type of emotion of the face as happiness, sadness, disgust, surprise, anger, fear,natural,doubt and contempt

Methods to Detection

Knowledge-based methods

Feature invariant approaches

Feature invariant approaches



Appearance-based methods

Flow chart

WE WILL IMPLEMENT YOLOV4 ALGORITHM FOR DETECTING FACE.

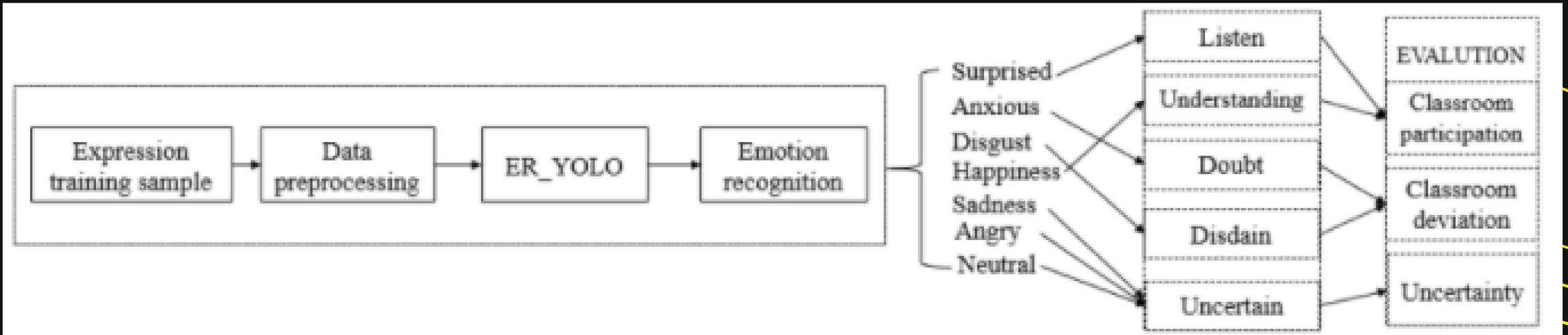
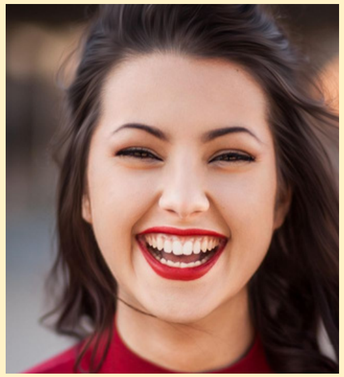


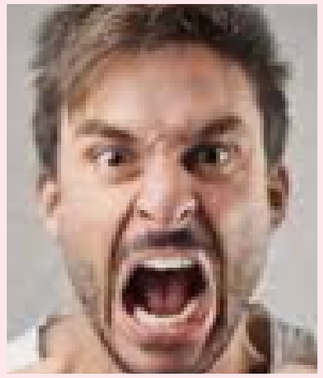
Figure 2. Flow chart of learner emotion recognition model

worried



happy

Sad



angry

surprise

Fear

disgust

doubt

Benefits of the project

By using Facial Emotion Recognition

A doctor can check his or her patient emotion condition

Businesses can process by knowing the emotion of their users thus saving costs and making life better for their users.

In the Field of Ad marketing and many other field.

Challenges of recognizing emotion

- The lack of permission
- Predatory marketing
- Technical challenge
- Create our own dataset
- Modify the data
- Face occlusion and lighting issues

Thank You....