Emotica.AI

(Emotion Detection & Classification System)

Harnessing the power of AI to detect emotions in real-time

TABLE OF CONTENTS

Overview

Since the dawn of the AI era, emotion & its detection using this technology became one of the crucial as well as important fields of study. The technology evolved a lot with all its dependencies & so emerged its need & applications.

Emotica.AI is a real-time emotion recognition system that uses CNN(Convolutional Neural Network) for deep learning of the nodes, which tends to improve the real-time review and feedback systems with time .

To keep up with both the efficiency & accuracy, our system focuses on the priorities of image classification following the micro-expressions & facial contours for precise calculations.

Understanding the problems

01 The technologies used for the surveys & feedback using facial features or more precisely facial emotion recognition doesn't give quantized feedback and doesn’t perform calculation depending upon micro-expressions & facial contours.

02 Companies get massively charged for the feedback & survey services offered by the third-party companies, which excludes the smaller companies from getting these facilities.

03 Poor user -feedback ratio of products resulting in lack of reviews and thus lack of R & D relating to the problems faced by the customers.

Project Objective

The motivation behind this topic is that large corporations do massive investments in feedbacks and surveys that fail to get the desired response from their customers.

Our approach to the technology, known as emotion detection, can identify facial gestures & return those valuable facial responses which in the process could help the companies to improve the performance of various products and services in the long with just one time investment.

Uniqueness over existing models in the market

1. Rectified face occlusion using improved frontalization techniques.
2. Resolved illumination problems using advanced image normalization feature.
3. Quantized emotion detection using a cluster or set of image frames for expression classification for both accuracy & precision.

Target audience

Our project aims to target small business owners and companies that aims to improve their business with our product they can get a really fast, cost effective and user-friendly solution.

Quick Look: Emotica.AI

A glimpse of our model Emotica.AI performing with some high end precision & efficiency.

A

Real-Time

Emotion

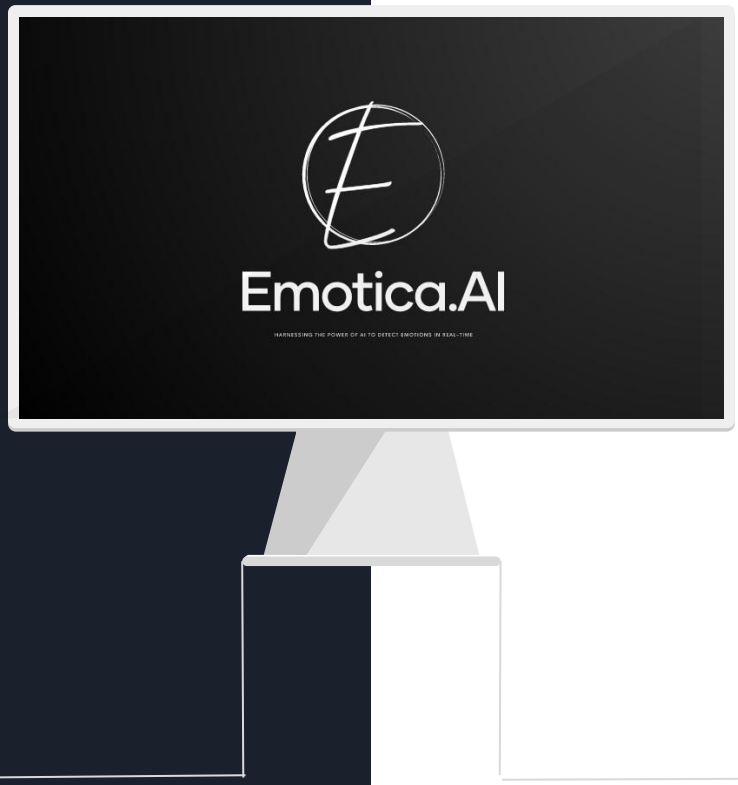
Recognition

System

TECHNOLOGY - STACK

BACKEND

- Framework
- Database
- openCV
- PYTHON
- OS



FRONTEND

- Pillow
- Tkinter
- Interface
- Application
- OS

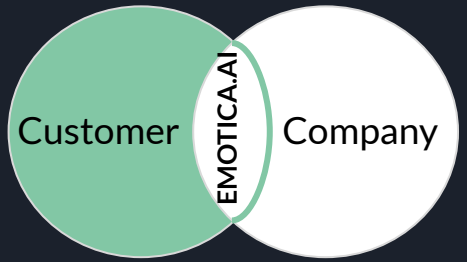
Future Aspects:

Though our system is designed to perform facial emotion recognitions, but in long terms we see our system performing in various field and not just limiting it to the feedback mechanism.

Some of them are:

A. Security & Investigation
B. Health & Wellbeing
C. Education & Sports
D. Automotive Industry
E. Facial Emotion in Interviews

Conclusion



We hope our system to perform in its fullest extent & potential in every aspect of its use, dedication ourselves in the role for improving and making solutions more & more adaptable, comfortable, efficient with a steep accuracy level.

#CONNECTING_WORLD

SUMMARY

- An innovative way of collecting feedbacks
- Unique in market.

- Add value to businesses

From Team Emotica.AI