



**THE TECH TITANS**

# *Music Recommendation System Based On Users Facial Emotion*

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❖ Presenting our project

# TEAM DETAILS

- **Team Mentor**

Sabari Kumar(CSE-DS)

- **Team Leader**

Uday Raj Sharma(CSE-DS)

- **Team Members**

- I. Mrithunjoy Barwan(CSE-DS)
- II. Sudip Sharma(CSE)
- III. Gourav Dey(CSE-DS)

# *SYNOPSIS OF THE PROJECT*

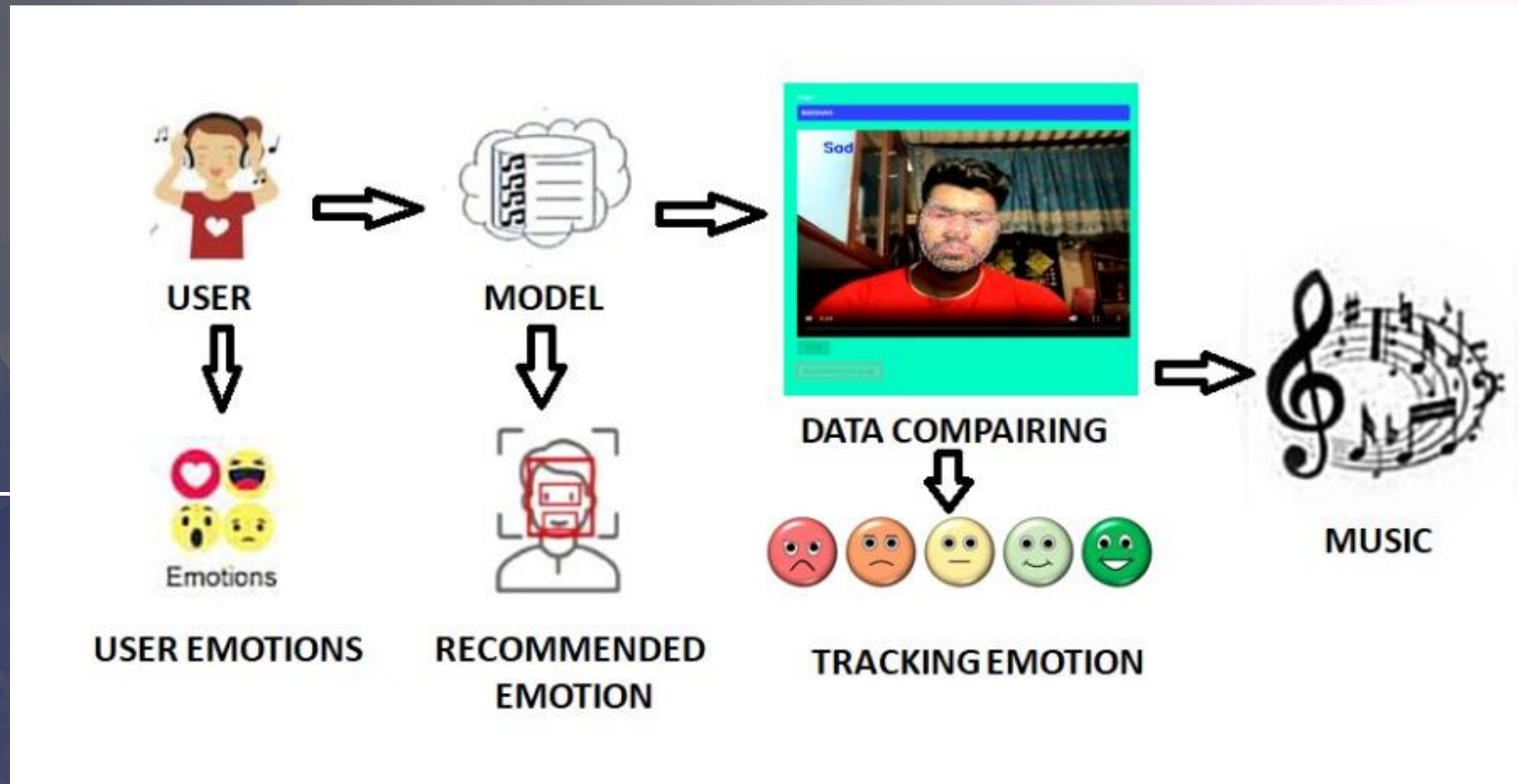
Music has always been known to change people's moods. Capturing and recognising a person's emotion and displaying appropriate songs matching the person's mood can gradually calm their mind and end up giving a pleasing effect.

People express their emotions primarily through their facial expressions. Our system aims to capture a person's emotion through facial expressions. The user's current emotion is used to generate an automatic music playlist. When compared to the algorithm in the existing literature, it performs better in terms of computational time.

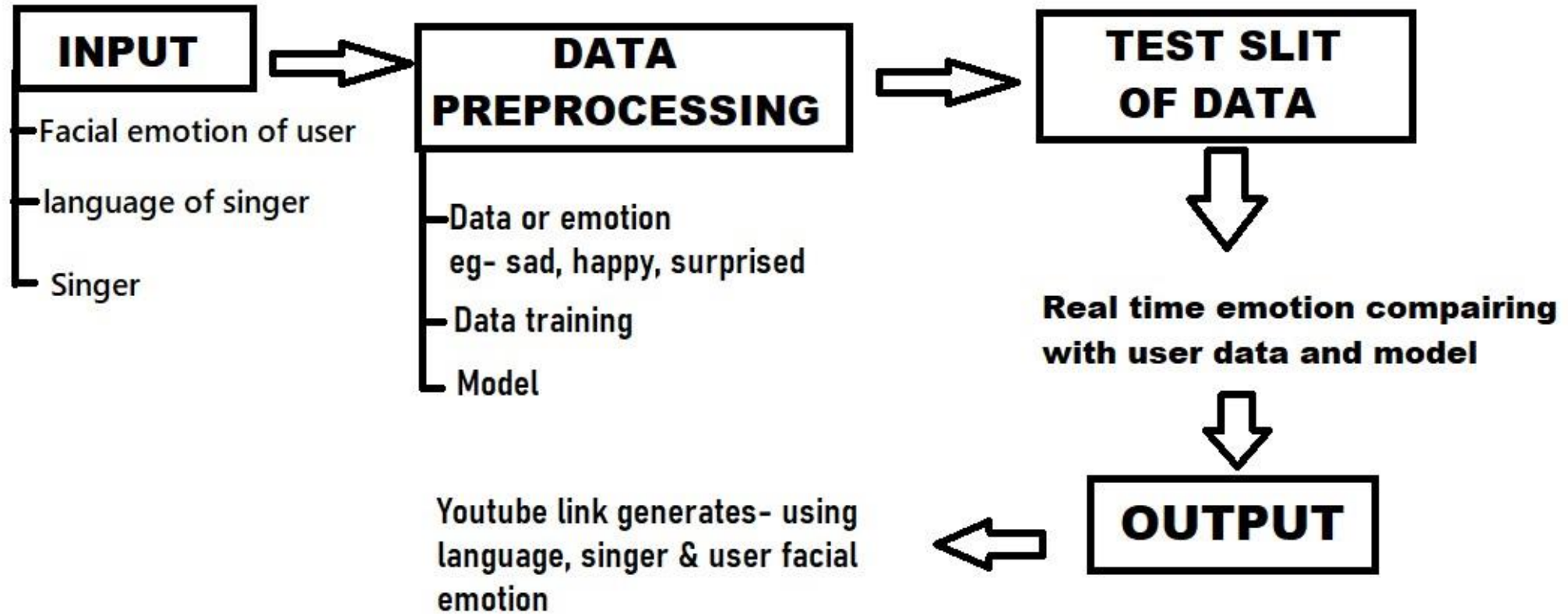
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# FUNCTIONAL BLOCK DIAGRAM



# USE CASE DIAGRAM



# TECHNOLOGY STACK USED

## 1. PYTHON

- a) Numpy
- b) Av, Cv2
- c) Mediapipe
- d) Streamlit
- e) Streamlit\_webrtc
- f) Tensorflow
- g) Model

## 2. VISUAL STUDIO



# *Limitation/Disadvantage*

- *If the person is not in a light-filled environment, the system may be unable to detect facial expressions.*
- *If more than one person on screen it will only detect one person.*
- *Sometime it fail to detect proper emotion that we feel.*

20/03/23  
dd/mm/yyyy

**Letter of Forwarding**

I am glad to mentor the following project as part of participation in DIRECTRIX, 2023.

Name of the Team: The Tech Titans

Title of the Project: Music Recommendation System Based On User Facial Emotion

Details of the Team:

Sl no	Name	Role (Mentor/ Leader/ Member)	College (FIEM / FIT / FBS / FMS / FSHM)	Dept	Year	Email id	Mob no
1.	Uday Raj Sharma	Leader	FIEM	CSE(DS)	1st	udayraj.sharma@fiem-cds22@teamfuture.in	8902925796
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4.	Gourav Dey	Member	FIEM	CSE(DS)	1st	gourav.dey@fiem-cds22@teamfuture.in	8967370934
5.	Sabari Kumar	Mentor	FIEM	CSE(DS)		sabari.kumar@teamfuture.in	9883942345

This is to further certify that the above project is original & innovative and has not been participated/displayed in any of the previous project competitions yet.

Sabari Kumar  
(SIGNATURE OF FACULTY MENTOR)  
Name: SABARI KUMAR  
Designation: ASSISTANT PROFESSOR  
Dept: CSE(CDS)  
College: FIEM