MIT-ADT UNIVERSITY
PUNE, INDIA
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MIT SCHOOL OF COMPUTING

Class : TYCORE1
Group Id: 09

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MOOD RECOGNITION

AI based methodology to predict emotion using facial expressions

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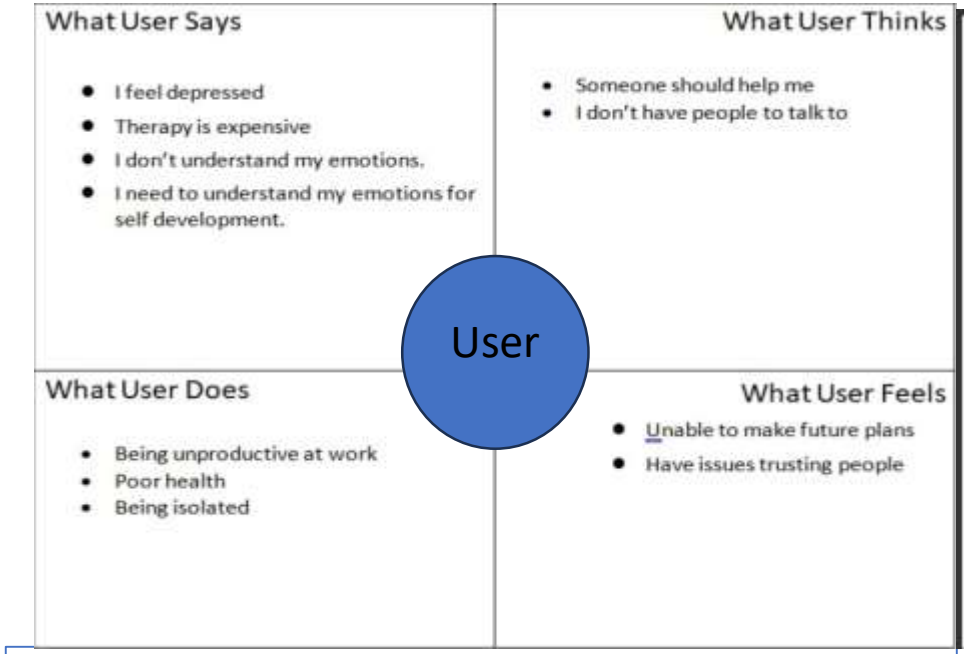
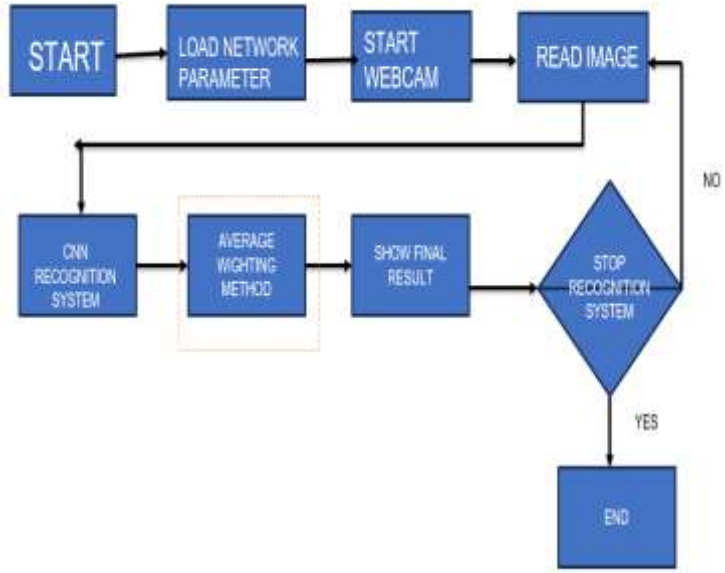


Sr. No.	Requirement	Proposed Solution
1.	Mood recognition	
	• Emotion recognition APIs • Open source libraries and frameworks • Research papers	we are going to take input from open source library and use it to analyze mood.
2.	Personalized recommendation	
	• Counselor • content based filtering • music	we are using deep learning for recommendation system. The system offers personalized recommendation, including music, videos and other activities to improve mood.
3.	Personalized mental health support	
	• therapist • doctors • positive people	we will help our users connect to therapists and doctors. We will also help them to connect with like minded people and have good social life.



Problem statement

A person suffering from poor mental health experiences a lot of behavioral changes which might not be good for people around him/her. He/she needs technical support to understand himself or herself better because they need better productivity, have better relationships and have a better health in general.

Proposed Solution

Develop an emotion prediction system using a pre-trained CNN model that analyzes facial expressions from recognized face. Train the model on a labeled dataset of diverse emotions, then deploy it as a user-friendly web application to provide real-time emotion predictions from recognized face. Regular updates and user feedback will ensure continuous improvement and accuracy.

Scope and Feasibility

developing a system to recognize and analyze human moods, likely utilizing facial expressions, voice tone, and possibly other cues. It could have applications in fields like mental health, human-computer interaction, and more. It is already being used in cognitive psychology, clinical diagnostics, EEG(electroencephalography).