

Emotion Detecting social media

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IN

B. Tech. COMPUTER SCIENCE ENGINEERING



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ABSTRACT

The proposed project is to improvise the way of interaction between human and computer. The feature provided by the project is computer will predict emotion(happy, sad, angry) of person by camera.

Later this feature has endless use cases such as, it can be used social medias for automated liking and replay/skip of video or photo.

What we are developing: A social media website which can detect emotion to interact hands free which runs on all popular browsers, on devices starting from low-medium end.

Human emotions are limited to being positive or negative. Still, it has more categories like happiness, sadness, joy, disgust, surprise, depression, frustration, anger, fear, confidence, trust, anticipation, shame, kindness, love, friendship, faith, and wonder. Analyzing people's comments/emotions is essential for the country, business, or individuals for their existence, which gives the researcher motivation on sentiment analysis on emotion detection. Social platforms have become increasingly important in people's daily lives as networks have grown. Twitter, as the most popular microblogging network, contains a wealth of information in the form of tweets exchanged by millions of users. It's challenging to extract meaningful information for users from this data stream because it's always growing. More and more users wish to use these data to profit from Twitter's customized service. People can get a tailored service on Twitter by extracting the semantic meaning of Twitter and modelling their interests.

Previous interaction: by touch

Proposed interaction: by detecting emotion of user through camera (and touch)

INTRODUCTION

Every minute of the day, a tremendous amount of data is generated by social media networks. Social media like YouTube, Facebook, Twitter, LinkedIn, WhatsApp, Reddit, or any product website are available online around the globe. It is where people spend a lot of time sharing their thoughts, views, and opinions across the world . When people share their thoughts through social media, they express their emotions directly or indirectly. The process of analyzing this expression is called Sentiment Analysis.

Social Network Analysis (SNA)

Sentiment Analysis (SA) is part of social network analysis (SNA). With the help of social media, various known or unknown entity constructs are formed in social networks. It links with family members, groups, colleagues, peers, and maybe connects with users for commercial purposes . The interconnectivity of the individual in a social media network is called groups or communities. People get connected on social media platforms with attributes like their relationship, similarity of interest or habits, etc. It is found that people have social commodity beliefs on those people with whom they trust more and follow them to achieve their solution to real-time problems.

Hence, it is crucial to recognize emotion expressed by these entities to regulars of the production or services. This information collected from customers or individuals encodes their feelings regarding their procurement. This analysis is essential for any organization in the decision-making process, like what people say, how they're saying it, and what they mean, to ensure their growth.

Existing system

There is no problem as such in current technology solution but there is lack of feature. The lack of feature is not using human emotion for better user experience in social media.

There is no particular source for this problem, this problem is inspired by many, important ones are below.

Proposed solution

The proposed solution is responsive social media website that runs on all popular browsers that adapts and navigates contents by recognizing emotion of user by Machine Learning techniques through camera.

Technologies used

HTML

CSS

JavaScript

React

Node

Express

Mongo DB

Softwares used

Integrated Development Environment (IDE): Visual Studio Code (vs code)

Hardware used

Development Platform: Linux

Development Device: Any average hardware with Linux compatibility

User Device: Any Operating system with browser

HCI Correlation

1. Human-computer interaction (HCI) is a multidisciplinary subject that focuses on computer design and user experience.
2. It brings together expertise from computer science, cognitive psychology, behavioural science, and design to understand and facilitate better interactions between users and machines.

3. HCI is about doing things better
4. It helps to broaden and develop cognitive science itself.
5. It tackles some of the biggest threat to our future.