VIT | Vidyalankar Institute of Technology
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Department of Information Technology

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TALKSPACE

ABSTRACT

Recognition: Develop deep learning models that accurately identify human emotions from multiple modalities (video, audio, and text).
Robustness: Create a system resilient to noisy data by fusing information from different sources.
Real-Time Processing: Enable real-time emotion analysis for applications like interactive gaming, mental health assessment, and customer service.
Empathetic Interactions: Bridge the gap between human emotions and machine interpretation, leading to more intuitive and empathetic human-computer interactions.

OBJECTIVES

- Recognition: Develop deep learning models that accurately identify human emotions from multiple modalities (video, audio, and text).
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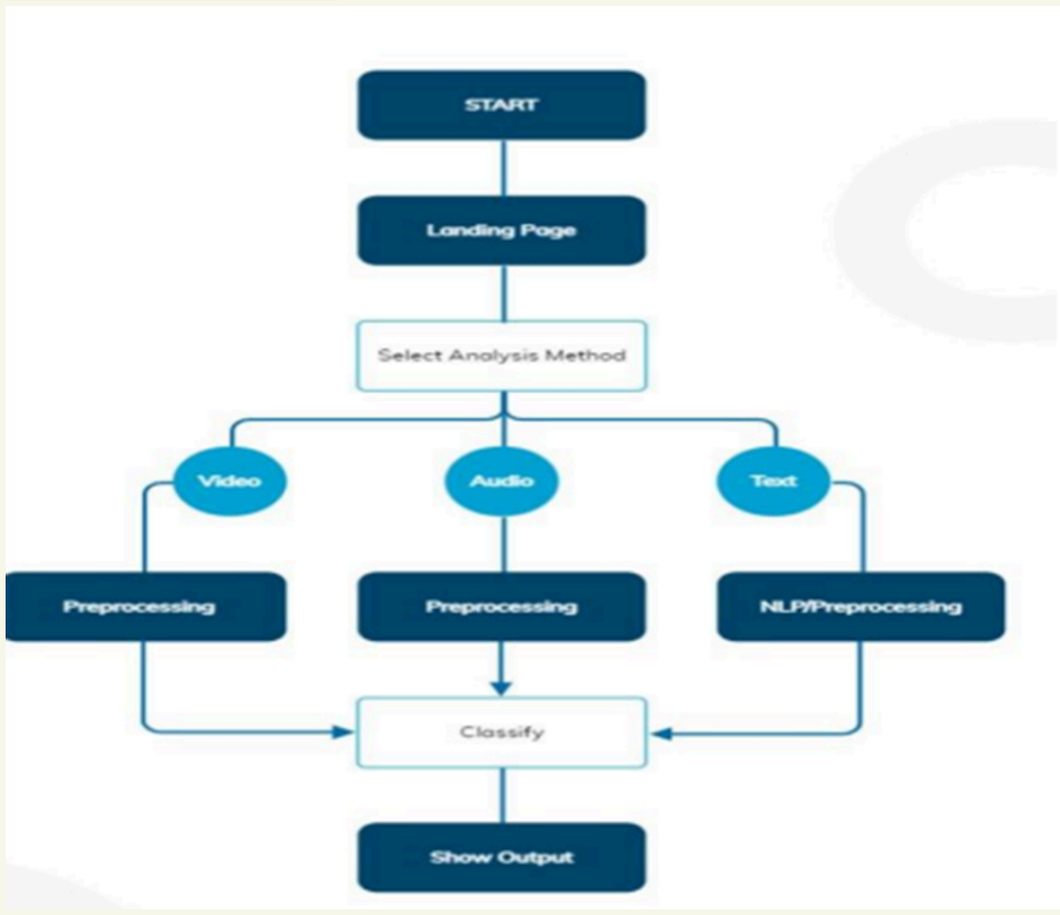
FLOWCHART



Features

1Allows employers to post job vacancies specifying required skills, location, and compensation.

2. Matches available laborers with job requirements based on skills, location, and availability.

3 Enables employers to provide feedback and rate laborers based on their performance, ensuring transparency and accountability in the hiring process.

4 Integrates secure payment processing for laborer wages, either through the platform or external payment systems, ensuring timely and hassle-free payments.

Motivation

The pursuit of integrating emotional intelligence into artificial intelligence systems is the driving force behind the multimodal emotion recognition project.
The motivation stems from a fundamental understanding that emotions are central to human experience and communication. They influence our decisions, shape our interactions, and affect our well-being
Enhancing Human-Computer Interaction: By imbuing machines with the capability to detect and interpret emotions, we can create more natural, intuitive, and efficient interactions

Future Scope

- ML Model Refinement: Continuously refine machine learning models to enhance accuracy and efficiency, incorporating the latest advancements in the field.
- Real-time Feedback: Offer instant responses tailored to dynamic environments, ensuring timely and relevant interaction.
- Cultural Adaptation: Recognize and adapt emotion recognition across diverse cultural contexts, fostering inclusivity and sensitivity.
- Multimodal Fusion: Combine data from various modalities to extract richer and more nuanced emotional insights, enhancing the depth of understanding.
- Expanded Applications: Extend the system's utility to diverse domains such as virtual reality and education, enabling personalized emotional experiences and learning environments.