Title: Alexithymia Screening System using Multimodal Emotion Analysis

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KEYWORDS: Alexithymia, multimodal emotion analysis, Internet of Things (IoT), Machine learning

DOMAIN: Internet of Things

SUMMARY:

The Alexithymia screening system is designed to assess Alexithymia through multimodal emotion analysis. The system comprises an IoT device, a network connectivity layer, and a cloud-based web application tailored for Alexithymia screening. It integrates and analyzes data from multiple modalities, including video, speech, text, and behavioral traits, utilizing three advanced machine learning models. This comprehensive analysis enables the system to generate detailed analytic reports and notifications on an individual's emotional performance. The system is equipped with a user-friendly interface, providing insights and recommendations that can assist health professionals in diagnosing and managing Alexithymia.

ADVANTAGES:

1. Cost-effective.
2. It is user-friendly, portable, and suited for locations with limited resources.

APPLICATION: An assistive tool for screening Alexithymia.

SCALE OF DEVELOPMENT: The prototype of the system is available, and lab-scale testing has been conducted on it.

TECHNOLOGY READINESS LEVEL: TRL 3

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