

Infant problem prediction by there cry sound

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Abstract:-

Infants communicate primarily through crying, making it challenging for parents and caregivers to determine their exact needs. This research focuses on developing a machine learning-based system that analyzes an infant's cry to predict potential issues such as hunger, discomfort, pain, or illness. By leveraging audio signal processing and deep learning techniques, we extract key features like Mel-Frequency Cepstral Coefficients (MFCCs) to classify different types of cries.

Objective:

- To develop an AI-powered system that accurately analyzes infant cry sounds and categorizes them into different distress conditions.
- To enhance parental and medical decision-making through real-time cry analysis.

Applications:

- Smart Baby Monitors: Integrate with IoT devices to alert parents about the baby's needs.
- Healthcare Assistance: Early detection of medical conditions based on abnormal cry patterns.