201. INTELLIGENT BABY MONITORING SYSTEM WITH GAS DETECTION

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This study introduces an innovative automated alert system designed to enhance infant care through advanced motion sensing and environmental monitoring. The system continuously tracks a baby's body temperature using a temperature sensor, ensuring it remains within a healthy range. If the temperature deviates from the norm, it immediately triggers an alert. Addi- tionally, the system incorporates a voice detection module that identifies crying sounds, analyzing them for signs of distress that may indicate discomfort or health concerns. When either abnormal temperature readings or distress signals are detected, the system sends real-time alerts to the caregiver's smartphone via an IoT-based implementation. This ensures a timely response to the baby's needs. Designed to be safe and non-intrusive, the system is suitable for use in both home and hospital settings. By integrating temperature monitoring with voice sensing, this solution provides caregivers with essential information, enabling early intervention to address potential health issues and improve the safety and well-being of infants.

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