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INTELLIGENT GAS LEAK DETECTION WITH AUTOMATED SAFETY ALERTS

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Abstract:

Gas leakage poses significant hazards, often leading to accidents that cause both property damage and human casualties. The risks of explosion, fire, and suffocation depend on the physical properties of the gas, such as toxicity and flammability. In recent years, the number of fatalities from gas cylinder explosions has risen, primarily due to substandard cylinders, deteriorated valves, and worn-out regulators. This project aims to detect gas leaks promptly and alert nearby individuals through both SMS notifications and audible alarms, thereby enhancing safety and preventing potential disasters.

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