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Portable gas leak detector
this detector can be used to detect different gases

A GSM Based Safety Gas Leakage Detection System

Keeping gas levels in check helps save lives and enable business to conduct their operations in compliance

The solution could detect gas leakage send an alert to the end-user via an SMS or a buzzer and feature an exhaust fan that gets activated once the gas or fire is detected

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with a safety primary concern , business dealing with gas have to take certain precautions to ensure

It detects the malfunctioning of the pressurized gas system to prevent the accumulation of gasses so that the explosion does not happen.

The IoT-powered gas leakage detection utilizes an MQ6 sensor for the same.

Various functions by devices such as exhaust fan, buzzer, and sprinkler are performed, further activating the GSM module.

LINGESWARAN,J

Naive Bayes, SVM and KNN classifiers are giving acceptable testing accuracy to detect the leaks.

Signals are collected from the spot where the model has to be implemented.

The signals are finally tested in the implemented model which successfully predicts the presence of a leak in that spot

Then, these signals are transported to the supervisor’s device using the cloud.

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These devices help provide valuable data for analysis and allow the industrialists to make better decisions.

helps benefit the factories and refineries by keeping them safe against any unexpected threats like explosions.

the gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakouts.

Gas detection sensors are most commonly used to develop an IoT-powered system and identify the variation of toxic gases around an industrial facility.