IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 11, April 2025
Impact Factor: 7.67

IoT Based Smart Industrial Monitoring and Alerting System

R. Ramesh[1], G Navya[2], M Sousnika[3], K Thirupathi[4], G Omsai[5]
Associate Professor, Dept. of Electronics & Communication Engineering[1]
UG Student, Dept. of Electronics & Communication Engineering[2-5]
Christu Jyothi Institute of Technology & Science, Jangaon, Telangana, India
regularamesh437@gmail.com, navyaghanapuram@gmail.com,
sousnikamunigala@gmail.com, Korrathiru1323@ gmail.com, gudurusai08@gmail.com

Abstract: *Nowadays, gas leakage is major issue in the home and as well as industries It is used to reduce the risks in industries and kitchens by using internet of things The accidents can be avoided by using IOT technologies like monitoring the entire kitchen and restaurants areas by using mobile TELNET app. The cloud collects and stores large amounts of data from various IoT devices, such as sensors, machines, and equipment. This data is used for monitoring, analysis, and decision-making. Some sensors are used to monitor the different parameters like temperature and humidity sensors (LM35), flame sensor, gas sensor (MQ3), Wi-Fi module (ESP8266). The sensors all are collect their information in their respective fields and sends the data to the Wi-Fi module and it will perform. Microsoft Azure IoT Hub is a managed service that enables reliable and secure bi-directional communication between IoT devices and the cloud. It supports multiple protocols, including MQTT, AMQP, and HTTP.*

Keywords: Arduino, Wi-Fi module, LM35, flame sensor, Cloud

DOI: 10.48175/IJARSCT-25863