Literature Survey

S.No	TITLE	AUTHOR	PUBLISHED IN	INFERENCE
1	An Intelligent Fire Warning Application Using IoT and an Adaptive Neuro-Fuzzy Inference System	Barera Sarwar, Imran Sarwar Bajwa,Norren Jamil,Shabana Ramzan,Nadeem Sarwar	2019	The novel idea proposed in this paper is to use ANFIS for the identification of a true fire incident by using change rate of smoke, the change rate of temperature, and humidity in the presence of fire. The model consists of sensors to collect vital data from sensor nodes where Fuzzy logic converts the raw data in a linguistic variable which is trained in ANFIS to get the probability of fire occurrence. The proposed idea also generates alerts with a message sent directly to the user's smartphone.
2	Research on Fire Alarm Computer Monitoring System in Fire Engineering	Xiyang Feng, Chaofei Wang	2021	The fire alarm computer monitoring system in fire protection engineering is a kind of early warning monitoring system based on intelligent equipment, which judges the fire situation by detecting changes in the environment. The principle of the system refers to: using measuring devices to transmit

				the temperature, smoke and other related environmental parameters generated during the fire to microcomputer, and the single-chip microcomputer makes a judgment after analysing and comparing these data
3	Gas Leakage with Auto Ventilation and Smart Management System Using IoT	Afsana Mim Anika, Nasrin Akter, Md Niamul Hasan,Jannatul Ferdous Shoma,Abdus Sattar	2021	The proposed system can detect fire, gas leakage and it also has the ability to take further steps and decrease gas concentration via auto air ventilation and extinguish fire with water. The proposed method will help to improve the safety and reduce the death toll and reduce the damages that occur to the surrounding environment.
4	Iot based Fire and Gas monitoring System	Aayush Doshi	2021	In the proposed device, the temperature detector (DHT 11) the gas detector (MQ2,MQ7 and MQ135) and also humidity sensors are used to determine the environment and the undesirable gas within the manufacturing plant, gauged details can be connected to the web. In addition, our research findings demonstrated substantial energy efficiency and high-precision data analysis relative to conventional protection device strategies. For monitoring the

				fluctuation of parameters like air pollution levels from their normal levels in this case the sensing devices are connected to the embedded computing system.