Brainstorm

and Idea prioritization

TOPIC

Industry-specific intelligent fire management system

PERSON 1

- Based on the temperature readings and if any Gases are present the exhaust fans are powered ON.
- Employing gas sensor, flame sensor and temperature sensor to detect any changes in the environment.
- Emergency alerts are notified to the authorities and Fire station via FAST2SMS.
- If any flame is detected the sprinklers will be switched on automatically

PERSON 2

- A microcontroller based model for industries safety, which can detect gas leakage hazardous fire as well as take action to extinguish the fire.
- Upon detection of the same, the system disconnects the building's primary power source and shuts the main gas valve.
- With the assistance of sensors, the system continuously senses leakage of gases and fire occurrence.
- It also notifies the manager via GSM

PERSON 3

- By analyzing the transmitted images, an algorithm is able to recognize the source of fire and activate an alarm, thereby ensuring the safety of the enterprise
- The algorithm deploys various characteristics of flame images during data processing.
- The mixed Gaussian model is used to distinguish the dynamic area from the static background and the color characteristics of pixels in the RGB model are analyzed to detect fire

PERSON 4

The present status of the smoke level, temperature of the room, sprinkler status will be updated in remote server for further server

This IoT-based project detects the nearby flame using an Infrared Flame Sensor and then NodeMCU Tiggers the relay to extinguish the fire automatically

We can register up to three phone numbers. Here, we use GSM SIM800l module for alerting the user about the fire.

A person has to discover the fire in order to turn the fire alarm on. This scenario causes a significant amount of delay, which can ultimately lead to a lot of loss.