**🔹 Overview:**

This project **monitors temperature and gas levels** to detect fire hazards and trigger an alarm system using an **Arduino**, a **temperature sensor (LM35)**, and a **gas sensor (MQ-2/MQ-135)**.

**🔹 Components Used:**

* **Arduino Uno** (Microcontroller)
* **LM35** (Temperature Sensor)
* **MQ-2/MQ-135** (Gas Sensor)
* **Buzzer** (Alarm)
* **LED** (Visual Alert)

**🔹 Working Principle:**

1. **Temperature Monitoring:**
   * Reads data from **LM35**.
   * If the **temperature exceeds 80°C**, the **LED turns ON**.
   * If it goes above **100°C**, the **buzzer activates** (fire warning).
2. **Gas Detection:**
   * Reads gas levels from **MQ-2**.
   * If gas concentration is high, it can trigger an alarm.
3. **Serial Monitoring:**
   * Displays **temperature and gas values** on the **Serial Monitor**.

**🔹 Possible Enhancements:**

✅ **WiFi Alert (ESP8266/ESP32)** – Send alerts via email/SMS.  
✅ **LCD Display** – Show real-time sensor values.  
✅ **Relay for Fire Suppression** – Automatically trigger a fire extinguisher system.