A Smart Air Pollution Monitoring System

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Abstract: *Air pollution is a growing environmental concern that affects human health, ecosystems, and the climate. With the emergence of Internet of Things (IoT) technologies, it has become possible to develop low-cost, scalable, and effective monitoring systems. This paper discusses the creation of a Smart Air Pollution Monitoring System that uses IoT to observe and report air quality in real time.*

The system uses an MQ135 sensor for gas detection and a DHT11 sensor for temperature and humidity, all managed by an ESP8266 microcontroller. Data is transmitted to the Arduino IoT Cloud for remote access and historical analysis, suitable for diverse environments

Keywords: Arduino IDE, ESP8266, IoT