

AI-driven air quality monitoring system

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Scientists have been working to develop cost-effective monitoring systems that provide accurate, real-time data on air pollution. This is all about to change, thanks to some home-grown tech and the power of AI. The AI-driven air quality monitoring system gives people the power to understand the risks to their health posed by air pollution.

AI allows us to interpret the data, to make forecasts automatically in real time and to make models based on data, which is where most of the costs lie. We are creating a lot of data and unique data sets that fit into what will become the most sophisticated air quality model based on artificial intelligence, probably in the world.

In each of the system's sensors, a laser is used to quantify the concentration of particles found in the air. The data is uploaded through Wi-Fi and the Internet. The system is modular, so the sensors can be upgraded to monitor different chemicals and pollutants within the environment.

Air pollution kills millions of people every year. The World Health Organization estimates that about seven million people die prematurely from illnesses attributed to household air pollution caused by fuels and kerosene used in cooking. (*Source- Wits Univ., Phys.Org*)