

# **URBAN AIR QUALITY ANALYSIS AND ITS IMPACT ON HUMAN LIFE**

## **ABSTRACT:**

Urban air pollution is a critical environmental and public health issue driven by increasing industrialization and urbanization, leading to deteriorating air quality. This study analyzes key pollutants—PM<sub>2.5</sub>, PM<sub>10</sub>, NO<sub>2</sub>, SO<sub>2</sub>, CO, and O<sub>3</sub>—and their impact on respiratory diseases, cardiovascular conditions, and mortality rates. Using air quality datasets and health records, it identifies correlations between pollution levels and health risks. The findings highlight the urgent need for policy interventions, enhanced monitoring systems, and sustainable urban planning to mitigate air pollution's harmful effects and protect public health.

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