**Analysis of Air Quality Index in India**

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**CERTIFIED SPECIALIST**

**IN**

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submitted by

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**Abstract**

**An Analysis of Air Quality Index in India**

Air is what keeps humans alive. Monitoring it and understanding its quality is of immense importance to our well-being.The Air Quality Index (AQI) is used for reporting daily air quality. It tells you how clean or polluted your air is.The higher the AQI value, the greater the level of air pollution and the greater the health concern. The purpose of the AQI is to inform people about their air quality so they can take steps to protect their health.

Here we are trying to find out the air quality index based on the pollutant particles measured in the air by various stations across India on a daily basis.The dataset set contains air quality data based on the levels of PM2.5,PM10,NO,NO2,NOx,NH3,CO,SO2,O3,Benzene,Toluene,Xylene in air and daily AQI level among various stations across multiple cities in India.

The Machine learning regression models is used for analyzing the air quality index.One more possibility of this data is to classify the various possible health impacts on people based on the AQI values and AQI bucketing. The model created helps us to find the particular ranges of air quality indices ,hence the health impacts in the particular cities can be determined.

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