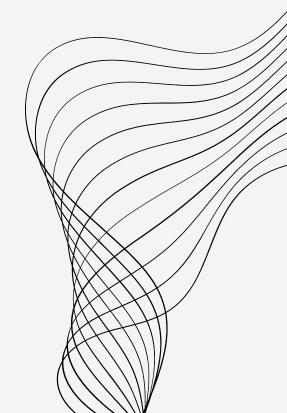




Research Paper presentation

Machine Learning and Artificial
Intelligence Techniques in Restraining
Air Pollution in India



CONTENT

01

INTRODUCTION

02

VARIOUS GASES

03

FLOW CHART

04

TECHNIQUES & SENSOR USED

05

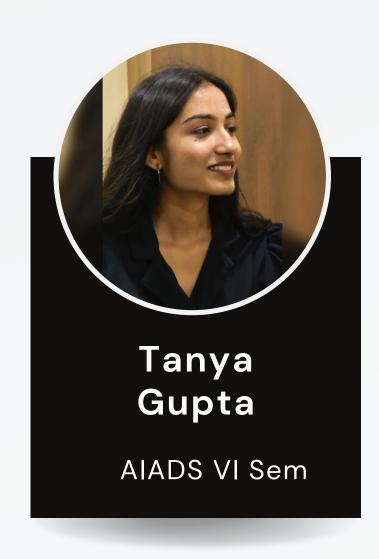
PREVENTION STRATEGIES

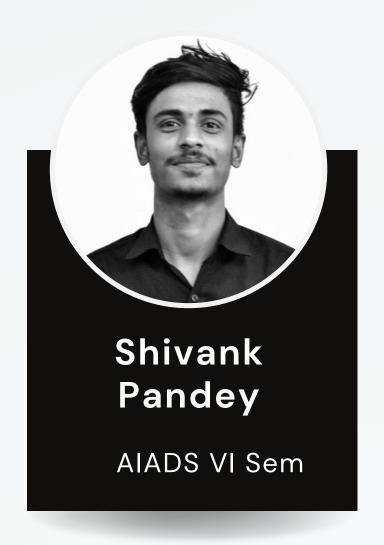
06

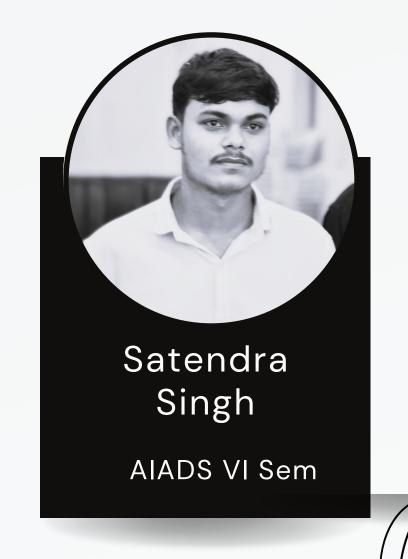
RESULT



OUR TEAM







INTRODUCTION



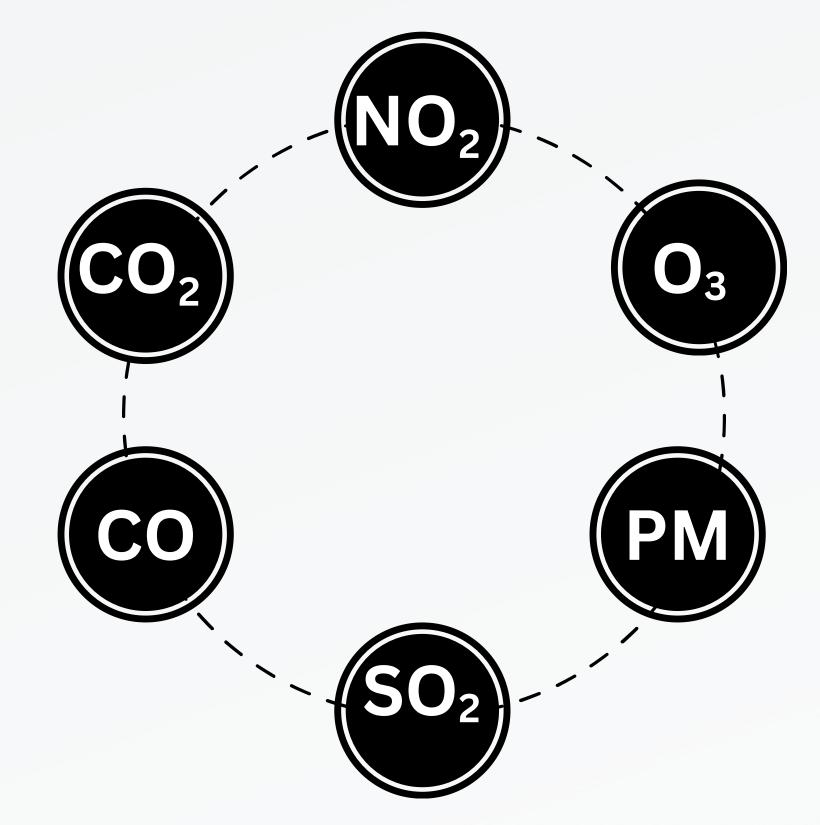
Machine learning techniques have revolutionized the field of gas detection, offering new and powerful methods for analyzing and interpreting data from various gas monitoring systems.



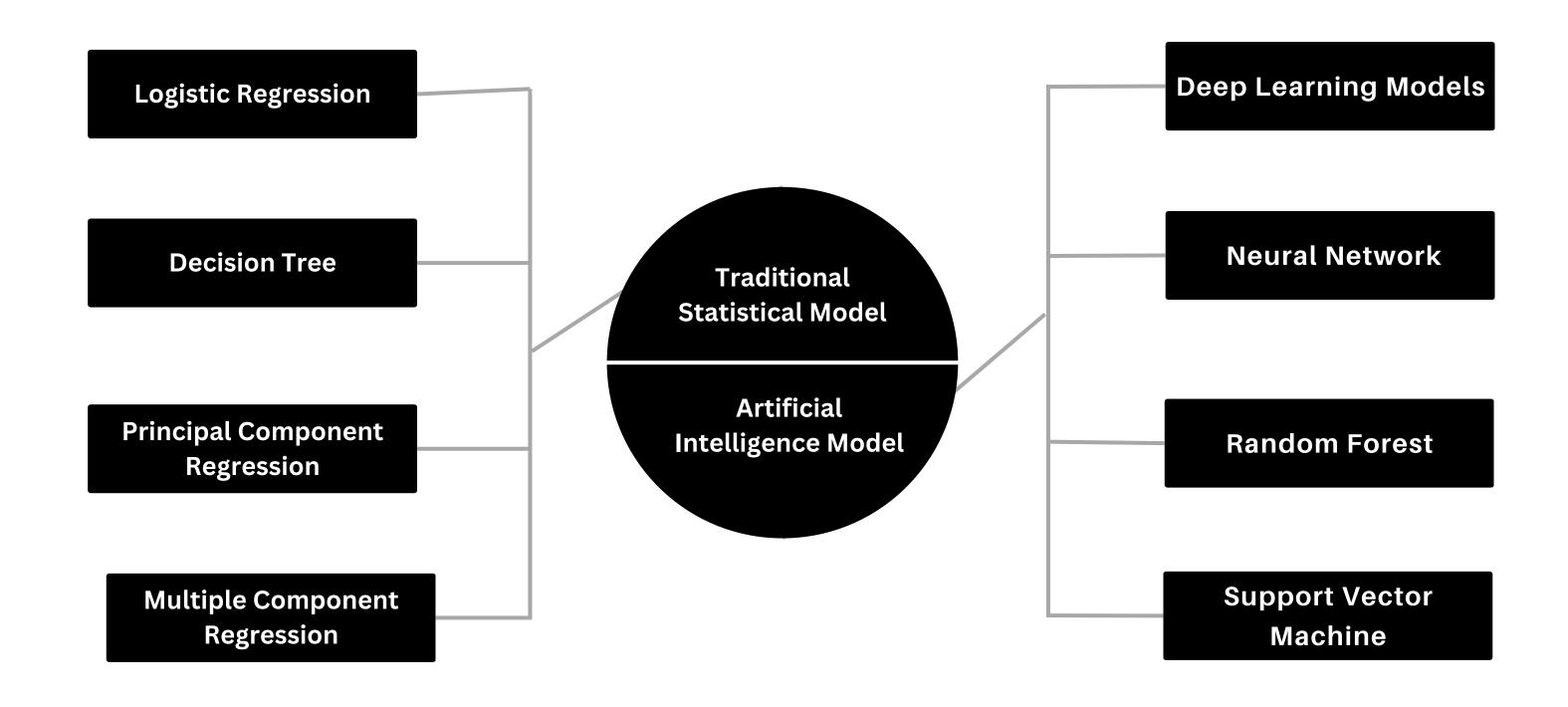
By leveraging these techniques, we can develop highly accurate and efficient models for detecting and preventing the presence of poisonous gases in the air.

VARIOUS GASES CAUSE OF POLLUTION

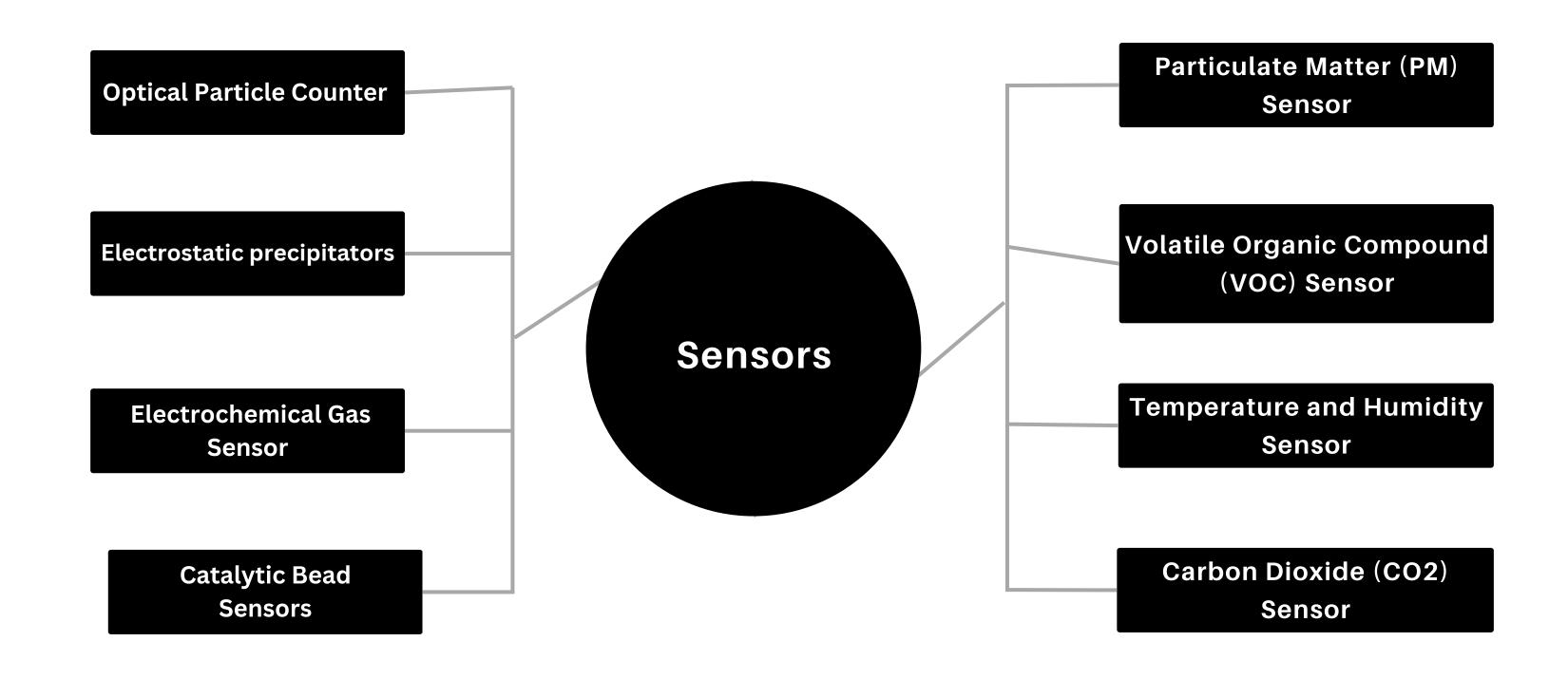
The main air pollutants including NO2, SO2, CO2, CO, O3, and particulate matter (PM), all of which adversely affect the ecosystem and individuals.



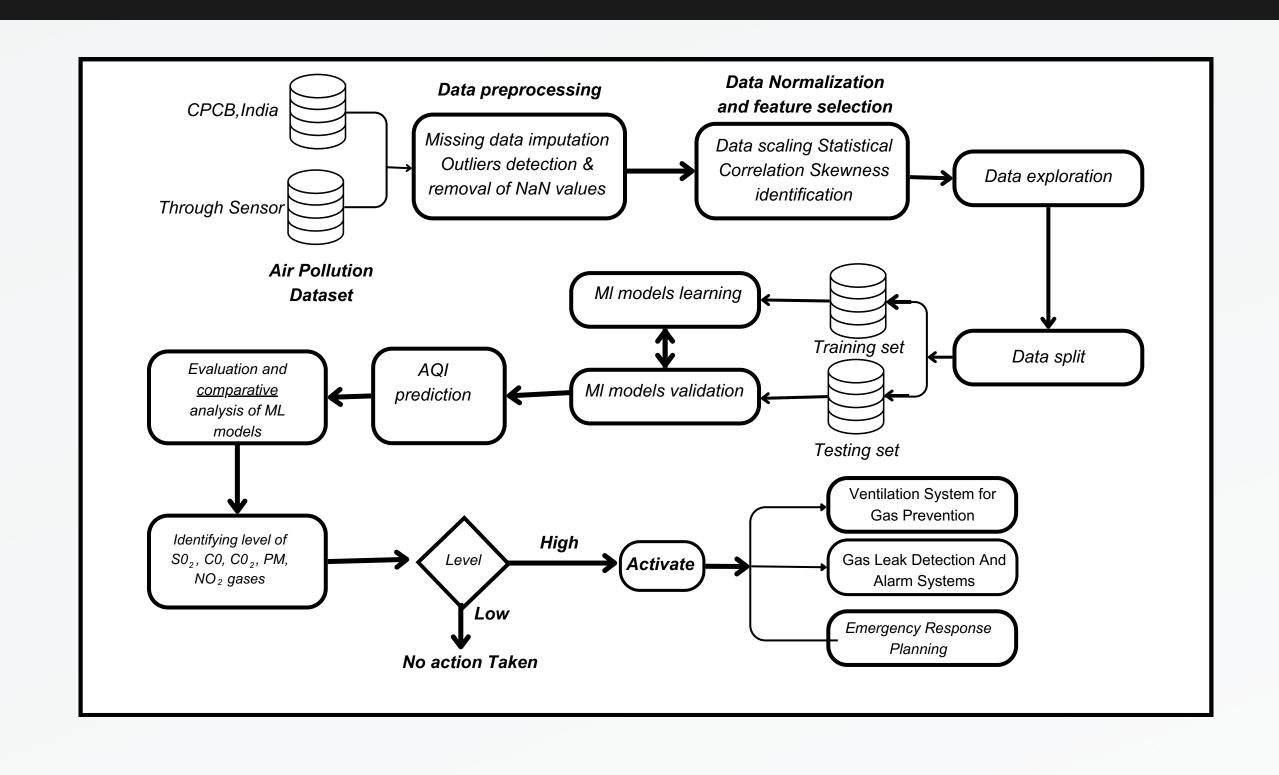
TECHNOLOGY USED



TECHNOLOGY USED



FLOW CHART

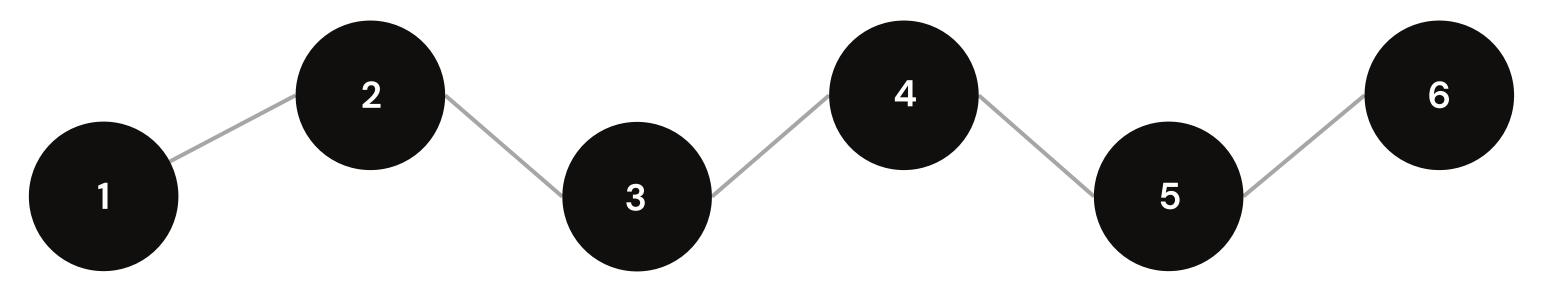


CHALLENGES AND NEED

Inadequate availability of Artificial Intelligence expertise, manpower, and skilling opportunities

High resource cost and low awareness for adopting Artificial Intelligence in business processes

Need Research demand in big data quality assurance



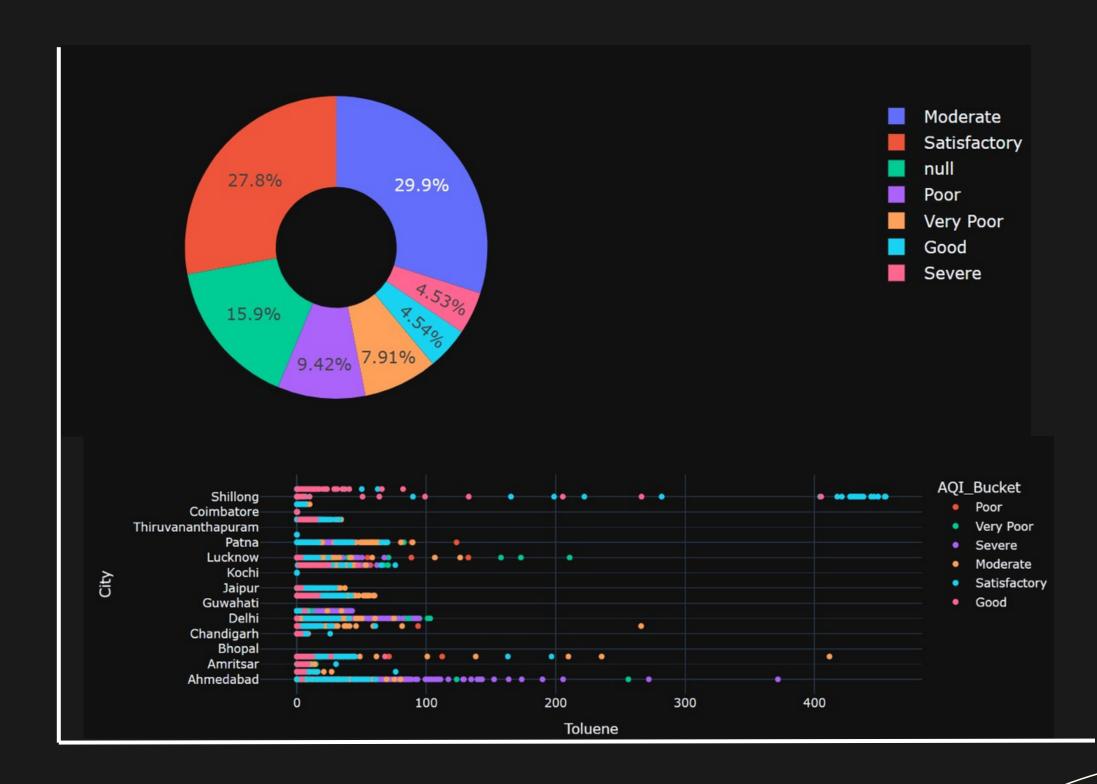
Lack of enabling data ecosystems

The low intensity of Artificial Intelligence Research

Data quality and validation issue

RESULT

This section deals with the experimental design and empirical analysis for predicting AQI values through the pollutants present in the air. The air pollution dataset is split into training (75%) and testing (25%) subsets before evaluating ML models. The Python libraries like Scikitlearn, NumPy, Pandas, Seaborn, etc.





Thank You

Our Esteemed Jury Members and Every Al Advocate for Pioneering Change in Our World