

Project Initialization and Planning Phase

Date	10 July 2024
Team ID	739752
Project Name	Air Quality Index Analyzer
Maximum Marks	3 Marks

Define Problem Statement:

The air quality index (AQI) is an index for reporting air quality on a daily basis. It is a measure of how air pollution affects one's health within a short time period. The purpose of the AQI is to help people know how the local air quality impacts their health.

The higher the AQI value, the greater the level of air pollution and the greater the health concerns. The concept of AQI has been widely used in many developed countries over the last three decades. AQI quickly disseminates air quality information in real time. Awareness of daily levels of air pollution is important, especially for those suffering from illnesses caused by exposure to air pollution.

The main purpose of this project is to predict the AQI based on several inputs. We will be using various regression algorithms such as Decision tree, extra trees, random forest, and XG Boost. We will train and test the data with these algorithms. From this, the best model is selected and saved in pkl format. We will also be deploying our model locally using Flask

I am A city resident	I'm trying to Monitor the air quality in my area	But There is no local AQI monitoring station	Because I care about my health and the environment	Which makes me feel Worried about potential exposure pollution
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Problem Statement(PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	A city resident	Monitor the air quality in my area	There is no local AQI monitoring station	I care about my health and the environment	Worried about potential exposure pollution