

## Model Development Phase

Date	10 June 2024
Team ID	<b>740048</b>
Project Title	Air Quality Index Analyzer using ML
Maximum Marks	5 Marks

### Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
PM2.5	Particulate matter with a diameter < 2.5 $\mu\text{m}$	Yes	Critical indicator of air quality.
PM10	Particulate matter with a diameter < 10	Yes	Influences respiratory health.
NO2	Nitrogen dioxide concentration	Yes	Common pollutant from vehicle emissions.
SO2	Sulfur dioxide concentration	Yes	Results from industrial processes.

<b>CO</b>	Carbon monoxide concentration	Yes	Harmful to human health.
<b>Temperature</b>	Ambient temperature	Yes	Affects pollutant levels and dispersion.
<b>Location</b>	Geographic	Yes	Specific to regions pollution leves.