**AIR QUALITY ANALYSIS & PREDICTION IN**

**TAMILNADU**

**PHASE 4 PROJECT**

**SUBMISSION**

**SUBMITTED BY:**

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**ECE (III YEAR)**

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**APP CREATION:**

The data given in the **cpcb\_dly\_aq\_tamil\_nadu-2014.csv** is analysed.

The app that we are going to develop would contain the following features:

* **Real-Time Air Quality Data**

To display current air quality information for a limited set of pollutants, such as PM2.5 and SO2.

* **Air Quality Index (AQI)**

To calculate and show a basic AQI value that represents the overall air quality condition.

* **Location Based Data**

To use the user's location to provide air quality information for their current area.

* **Basic Air Quality Trends**

To show a simple graph for the last few hours of air quality data. This allows users to see recent changes.

**CHART:**

The above chart shows the different values of pollutants present in the places of Chennai as given in the dataset.

**ABOUT THE APP:**

**PAGE TITLE:**

“Real-Time Air Quality”.

**HEADER SECTION:**

Location settings icon to allow users to select their location.

**DATA DISPLAY:**

* Section in the middle of the page to display air quality data for the user’s current location.
* Subsections for each pollutant such as PM2.5, SO2, NO2.
* Each pollutant’s data might be shown as a large, easy to read number with clear display.

**AIR QUALITY INDEX (AQI):**

* A section to display AQI.
* Include a brief explanation of what the AQI means and its impact on health.

**INTERACTIVE ELEMENTS:**

* Allow users to update the real time data.
* Includes a search bar to manually input or search for locations.

**CONCLUSION:**

This app provides a user-friendly,accessible and informative platform that empowers individuals, communities to make informed decisions about their daily activities.

Ongoing updates and improvements are essential to enhance its accuracy, coverage and usability.