# UNCOVER THE ROLE OF GREENHOUSE GASES IN YOUR NEIGHBORHOOD

# NASA SPACE APPS CHALLANGE , 2024

PROJECT REPORT

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PROJECT NAME : AirAware

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INRODUCTION :

AirAware is a user friendly web platform developed in order to identify and distinguish places based on amount of greenhouse gas emission levels. This platform uses various APIs to collect data from NASA databases and plot live data on to a world map. AirAwareshows this collect data as two categories - first category shows data of global level, natural greenhouse gas emission and the second category plots more detailed data on a more local scale. First category data can be used for research and educational purpose. The data under second category can be used to identify greenhouse gases around us. This to help citizens who are planning to move to a new place understand the pollution around them and decide where to settle by analysing this data. This second category data can also be used by farmers to plant their crops accordingly.

SYSTEM OVERVIEW:

AirAware is designed in a very simple way so that anyone can navigate through the website without having any confusions. The homepage has all the necessary navigation buttons arranged in a simple manner. There is no need of login so that any complexity in use can be avoided. Anyone with the basic idea of working of a website can easily utilize AirAware to its full extent.

DESIGN CONSIDERATIONS:

System Requirements : Deign is carefully optimized to run even in a very limited system. A small lag will occur due to time taken to map data collected from Api.

General Constarints : The speed of webpage depends on the speed of internet.Also any failuers within the satelites can also reflect on the webpage.

PROGRAMMING LANGUAGES:

HTML, CSS, JavaScript

RESOURCES USED:

NASA API Portal -

World Map -

Others –

PROJECT DEMO- https://github.com/bofuuuu/AirAware/upload