**Project 2: Air Q Assessment TN**

 Bookmark this page

**Phase 1: Problem Definition and Design Thinking**

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

**Project Definition:** The project aims to analyze and visualize air quality data from monitoring stations in Tamil Nadu. The objective is to gain insights into air pollution trends, identify areas with high pollution levels, and develop a predictive model to estimate RSPM/PM10 levels based on SO2 and NO2 levels. This project involves defining objectives, designing the analysis approach, selecting visualization techniques, and creating a predictive model using Python and relevant libraries.

**Design Thinking:**

* 1. Project Objectives: Define objectives such as analyzing air quality trends, identifying pollution hotspots, and building a predictive model for RSPM/PM10 levels.
  2. Analysis Approach: Plan the steps to load, preprocess, analyze, and visualize the air quality data.
  3. Visualization Selection: Determine visualization techniques (e.g., line charts, heatmaps) to effectively represent air quality trends and pollution levels.

**Dataset Link:**[**https://tn.data.gov.in/resource/location-wise-daily-ambient-air-quality-tamil-nadu-year-2014**](https://tn.data.gov.in/resource/location-wise-daily-ambient-air-quality-tamil-nadu-year-2014)

**Assignment Notebook Submission**

File Naming Convention: **DAC\_Phase1**

After completion upload your file to your private GitHub account. Please give access to your faculty evaluators of your college and industry evaluator [ [IndustryEvaluator@skillup.online](mailto:IndustryEvaluator@skillup.online" \t "[object Object]) ] to your private GitHub repository for evaluation process

Go to the Project Submission Part 1 section and add your college code, the link of your GitHub in the space provided, upload your documents, and click on submit.

PROJECT SUBMISSION PHASE 1

This assignment has several steps. In the first step, you'll provide a response to the prompt. The other steps appear below the **Your Response** field.

1. **Your Response**

due Dec 30, 2023 16:00 PST (in 3 months)**IN PROGRESS**

Enter your response to the prompt. You can save your progress and return to complete your response at any time before the due date (Saturday, Dec 30, 2023 16:00 PST). **After you submit your response, you cannot edit it**.

Top of Form

* 1. **The prompt for this section**

Please enter your **college code** in the below text box.

**Your Response (Required)**



* 1. **The prompt for this section**

Please paste your **GitHub Link** in the below text box.

**Note**: Please give access to your faculty evaluators of your college and industry evaluator [ IndustryEvaluator@skillup.online] to your private GitHub repository for evaluation process.

**Your Response (Required)**



* + - Save your progress

YOUR SUBMISSION STATUS:**THIS RESPONSE HAS NOT BEEN SAVED.**

**File Uploads (Required)**

* 1. Select one or more files to upload for this submission. Supported file types: .pdf, .doc, .ipynb, .docx, .py, .pptxUpload files

You may continue to work on your response until you submit it.

Bottom of Form

* 1. Submit your response and move to the next step

1. **Assess Your Response**

due Dec 30, 2023 16:00 PST (in 3 months)**NOT AVAILABLE**

1. **Your Grade: Not Started**

Faculty Mentor Evaluation

10.0 points possible

Your results will be evaluated by the faculty mentor post which the marks will be visible at your end.

Industry Mentor Evaluation

10.0 points possible

Your results will be evaluated by the industry mentor post which the marks will be visible at your end.