AIR QUALITY VISUALIZATION

**Programming Languages used**:

* **Python** – Used for backend logic and data processing.
* **JavaScript** – Used for interactive visualizations (via Streamlit).

**Frameworks & Libraries:**

* **Streamlit** – For building the web-based UI.
* **Pandas** – For data manipulation and analysis.
* **Matplotlib & Seaborn** – For generating air quality visualizations.
* **SMTP (smtplib & email.mime)** – For handling email notifications.

**Databases:**

* **None (Currently File-Based)** – The app processes CSV files uploaded by users.

**Tools & Platforms:**

* **Google SMTP** – Used for sending feedback emails.
* **GitHub** – For version control and project collaboration.
* **Streamlit Cloud / Local Deployment** – For hosting the application.

**Required Libraries**:

# Streamlit for UI components

import streamlit as st

import streamlit.components.v1 as components

# Utility libraries

import time

import pandas as pd

# Visualization libraries

import matplotlib.pyplot as plt

import seaborn as sns

# Email sending libraries

import smtplib

from email.mime.text import MIMEText