Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: Government of Kerela

PS Code: SIH1324

Problem Statement Title: Air and Water quality index and Environment monitoring system

Team Name: Udhyan Sathi

Team Leader Name: Mohak Singh

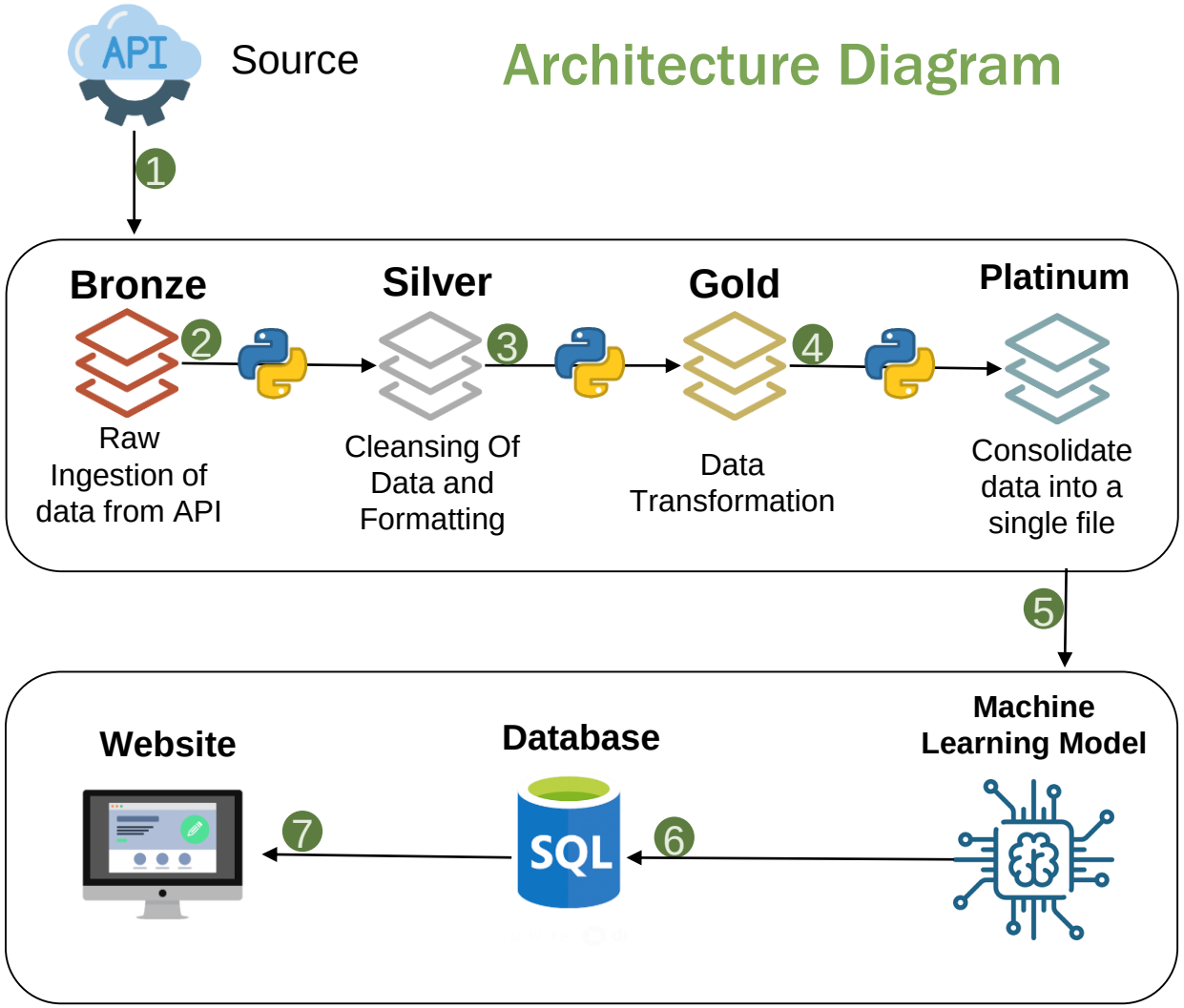
Institute Code (AISHE): U-0890

Institute Name: Bennett University

Theme Name: Environment monitoring system

Idea/Approach Details

Architecture Diagram



Link to our website : CLICK HERE

Link to github: CLICK HERE

Describe your idea/Solution/Prototype here:

We have created a **web-based Environment Monitoring System** provides real-time **AQI and WQI data**, allowing consumers to instantly access air and water quality information of pan India. The prototype will function as follows:

- Our Approach involves Creating a Web based Solution for providing the analysis of air and water quality data.
- For safety our platform **sends SOS alerts** for any harmful levels of toxic compounds in the environment.
- Visualize and Compare data effortlessly with **graphical representation** like heat maps, pictorial displays, bar graphs, and line graphs.
- Stay informed and protected with our comprehensive **environmental monitoring system**.
- Our multi-layered data strategy leverages historical data, providing comprehensive air and water quality insights.

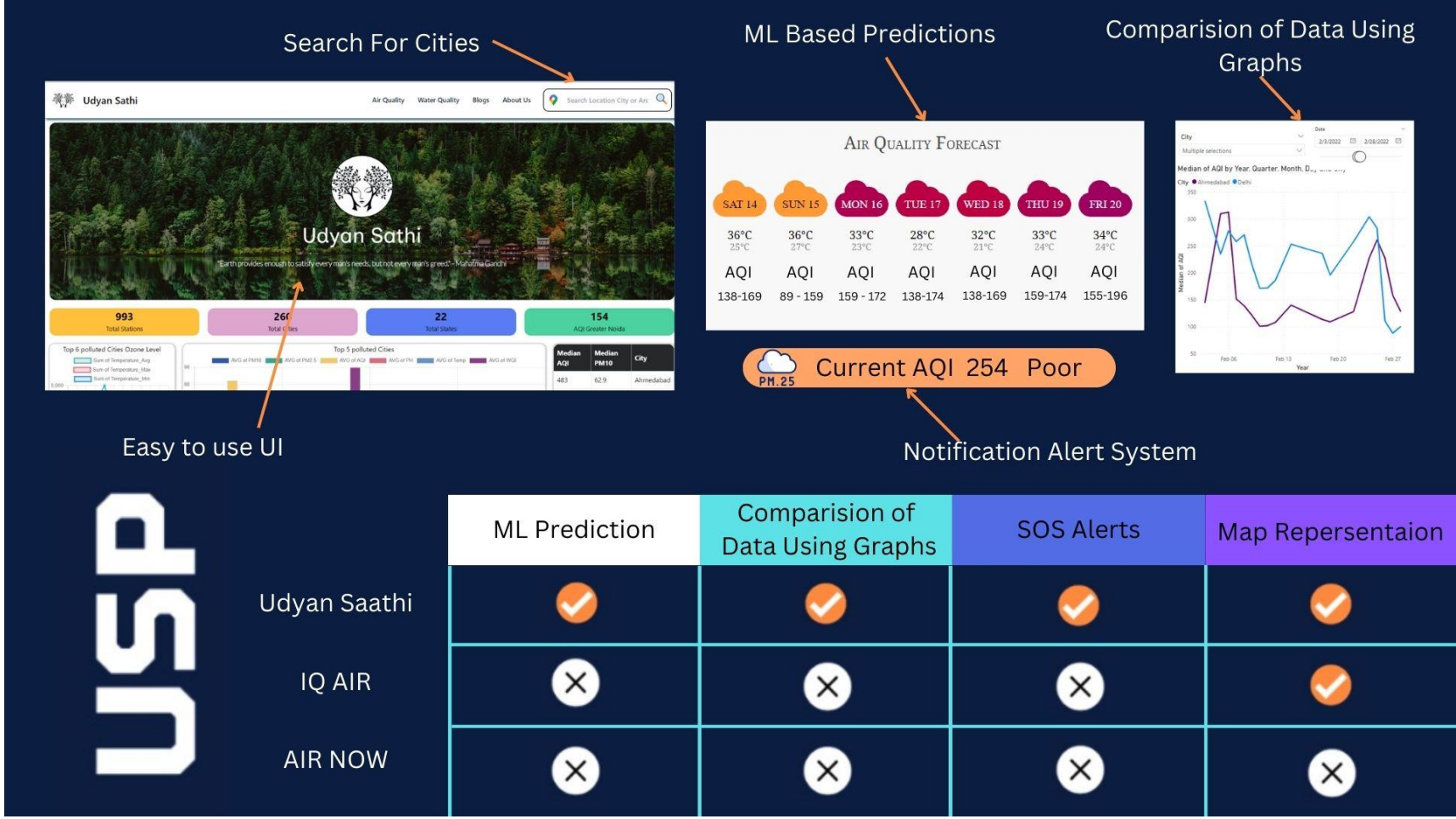
Describe your Technology stack here:

- Pyhton , React , Tailwind CSS, MySQL, HTML, JavaScript

Idea/Approach Details

Describe your Use Cases here

- **Public Health:** Our system provides real-time air quality data and health advice based on AQI. This can help individuals make informed decisions about outdoor activities, especially for vulnerable groups such as children, the elderly, and those with respiratory issues.
- **Environmental Awareness:** It promotes awareness of air pollution and water pollution its impact on the environment. Users can gain insights and understand the consequences of pollution on a larger scale.
- **Data-Driven Decision-Making:** Government agencies and organizations can use your data to make data-driven decisions for policy changes, urban planning, and more.
- **News and Blogs:** By covering government actions and news related to air pollution, your system becomes a hub for staying updated on the latest developments in air quality management.



USP

	ML Prediction	Comparision of Data Using Graphs	SOS Alerts	Map Repersentaion
Udyan Saathi	✓	✓	✓	✓
IQ AIR	✗	✗	✗	✓
AIR NOW	✗	✗	✗	✗

Business Model Opportunities

- **Government Partnerships :** Collaborate with government agencies to provide them with data and analysis tools.
- **Advertising**: Generate revenue through targeted advertising on your website, especially if you have a significant user base.
- **Educational and Corporate Partnerships**: Partner with schools, universities, and corporations to provide them with air quality data and educational resources for a fee.

Team Member Details

Team Leader Name: Mohak Singh	**Btech- CSE**	**1st year**
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Member 1 Name: Vansh Mehta	**Btech- CSE**	**1st year**
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Member 2 Name: Mannan Tyagi	**Btech-CSE**	**1st year**
Branch (Btech/Mtech/PhD etc):Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Member 3 Name: Prachi	**Btech-CSE**	**1st year**
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Member 4 Name: Nikhil sai vamshi Krishna Manam	**Btech-CSE**	**1st year**
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Member 5 Name: Aditya Banerjee	**Btech-CSE**	**1st year**
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc):	Year (I,II,III,IV):
Team Mentor 1 Name: Type Your Name Here		
Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in years):
Team Mentor 2 Name: Type Your Name Here		
Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in years):