

**PROJECT PLANNING PHASE**  
**MILESTONES AND ACTIVITY LIST**

DATE	22 OCTOBER 2022
TEAM ID	PNT2022TMID54402
PROJECT TITLE	EFFICIENT WATER QUALITY ANALYSIS AND PREDICTION USING MACHINE LEARNING

**Milestones and activity description:**

S.NO	MILESTONES	ACTIVITIES DESCRIPTION
1.	Prerequisites	Set up Anaconda
2	Prerequisites	Prior knowledge
3.	Prerequisites	Flow of the project
4.	Prerequisites	Objectives of the project
5.	Prerequisites	Project framework
6.	Data collection	Download the dataset
7.	Data preprocessing	Importing the Libraries
8.	Data preprocessing	Reading the dataset
9.	Data preprocessing	Review the data
10.	Data preprocessing	Management of Missing Values
11.	Data preprocessing	Water Quality Index (WQI) calculation
12.	Data preprocessing	Visualization of data
13.	Data preprocessing	Dividing columns into dependent and independent parts.
14.	Data preprocessing	Dividing the data into training and testing

15.	Model building	Model evaluation
16.	Model building	Save the model
17.	Application building	Build the HTML code
18.	Application building	Build the Python code
19.	Application building	Run Flask app
20.	Train the model on IBM	Register for IBM Cloud
21.	Train the model on IBM	Train the IBM ML model.
22.	Train the model on IBM	Integrate the scoring endpoint into Flask.