



**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ACADAMIC YEAR 2022-2023**

**UG – FINAL YEAR PROJECT APPROVAL FORM**

**DATE:28/02/2023**

<b>DOMAIN NAME</b>	MACHINE LEARNING AND DATA SCIENCE
<b>PROJECT TITLE</b>	WATER QUALITY PREDICTION SYSTEM
<b>TEAM MEMBERS</b>	1.Nitish Kumar D.P (610519104072) 2.Naresh Kumar D (610519104069) 3.Mohan R (61051910463) 4.Nandamudi Dinesh (610519104067)
<b>PROJECT GUIDE NAME</b>	Ms. Radha.N AP/CSE

**ABSTRACT:**

This project aims to predict the quality of water using machine learning techniques. Water quality is a critical factor in determining the suitability of water for various purposes, such as drinking, agriculture, and industrial use. Traditional methods of water quality monitoring can be time-consuming, expensive, and may not provide accurate results. Therefore, this project proposes a machine learning-based approach that can predict water quality based on various factors, such as pH levels, dissolved oxygen, temperature, fecal coliform and turbidity. The project will use supervised learning algorithms such as decision trees, random forests, Extreme Gradient Boosting and support vector machines to train the model on a dataset of water quality measurements. The model will then be tested on a separate dataset to evaluate its accuracy and effectiveness. The outcome of this project could be valuable in improving water quality management and ensuring the safe and efficient use of water resources.

<b>Signatures</b>	<b>Project Guide</b>		
	<b>Project Co-Ordinator</b>	<b>Approved</b>	<b>Not approved</b>
	<b>HOD</b>		

