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Academic Year: 2023-24

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Academic Year: 2023-24

INDEX SHEET

3.3.3: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year 2023-24

SI No.	Description	Year	Numbers
1	Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings	2023-2024	26

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3.3.3. Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during 2023-24

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the Proceedings of the conference	Name of the conference	National/ international	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. Pruthviraj RD		Green synthesize, characterisation and corrosion studies of mild steel by using novel inhibitor	Eternal Scientific Publications	International conference on Emerging Engineering Technology, Science and Humanities (ICEETSH-2024)	International	2024			
2	Dr.S Usha	IET digital Library	An Efficient Hybrid Denoising Algorithm for ECG signal using Adaptive Hybrid Filtering method and Empirical model decomposition method				2024			
3	Dr.S Usha	IET digital Library	An Overview of past and present progressions in XAI				2024			

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4	Dr.S Usha	IET digital Library	Illustrating graph neural networks(GNNs) and distinct applications, Explainable Artificial Intelligence(XAI):				2024			
5	Dr.S Usha	IET digital Library	Adequate lung cancer prognosis system using data mining algorithms							
6	Dr.S Usha	IET digital Library	Conclusion:an insight into the recent developments and future trends in XAI				2024			
7	Dr. Kiruba		An intergrated functinonality frame work for robust gvideo streaming heterogeneous networks	3rd International Conference on Signal Processing and Machine Learning	International Conference on Signal Processing and Machine Learning	International	2023	DOI: 10.54254/2755 - 2721/6/20230850	RRCE	
8	Dr. Kamal Raj		CNN Brain Tumour segmentation and image processing				2023	ISSN 2395-4396	RRCE	

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10	Dr. K Aravnthan	Extensive survey Project				National	2023			Amazon Kindle
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12	Dr. AMurugaadharam	-	IOT BASED ANIMAL DETECTION AND ALERT SYSTEM FOR FARM FIELDS	IC3IOT-4	International Conference on Communication, Computing and Internet of Things (IC3IoT)	International	Jun-24	979-8-3503-5268-9	Sri Sai Ram Engineering College	IEEE xplore
13	Dr.Sunitha R	-	Ayurvedic Flora Detection Using CNN Algorithm		2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	International	Sep-23	979-8-3503-4148-5	RRCE	IEEE xplore

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14	Dr.Sunitha R	-	Machine Learning Orchestration in Cloud Environments: Automating the Training and Deployment of Distributed Machine Learning AI Model	2023 International Conference on Network, Multimedia and Information Technology (NMITCON)	International	Sep-23	979-8-3503-0082-6	RRCE	IEEE xplore
15	Prof. Chaithanya C	-	Ayurvedic Flora Detection Using CNN Algorithm	2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	International	Sep-23	979-8-3503-4148-5	RRCE	IEEE xplore
16	Dr. P. Ebby Darney	-	A Deep Learning Framework for Early Detection of Heart Attack Risk and Cardiovascular Conditions using Retinal Images	IEEE International Conference on Emerging Research in Computational Science – ICERCS'23	International	7-12-23 to 9-12-23	979-8-3503-5976-3	RRCE	IEEE xplore
17	Dr. P. Ebby Darney	-	Smart Home Automation with Smart Metering using ZigBee Technology and Deep Belief Network	2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)	International	4-6 Jan. 2024	DOI:10.1109/1 DCIoT59759.2024	RRCE	IEEE xplore

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19	Dr. P. Ebby Darney		An AI- Enhanced IoT Model for Three-Way Authentication and Location Tracking in Secured Jewellery Boxes		5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2024)	International	18-01-24 to 19-01- 24	ISBN: 979-8- 3503-9523-5	RRCE	IEEE xplore
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22	Dr Sreenivasa Murthy.V	Cognitive Horizons : Exploring Artificial Intelligence And Machine Learning	Exploring Artificial Intelligence And Machine Learning				27.02.2024	978-9358574128		Nitya Publications
23	Sowmya G	-	Imapct of Microfinance on women entrepreneurship with reference to Bengaluru	Global Paradigm Shift to Stabilize Growth	International Multidisciplinary Conference	International	2024	0378-1143	International Council for Development Research (ICDR)	
24	Dr. T Subburaj		Advanced Analysis of Disease prediction and prevention using Machine Learning	7/8/2023	IEEE 5th InterNational conference on cybernetics, cognition and machine learning applications (ICCMCA)	International	2023	DOI : 10.1109/ICCCMLA58983.2023.10346737	RRCE	
25	Dr. Satheesha V		Optimization of EDM Process Parameters for Inconel 718 by Machine Learning Techniques	9-11 Oct 2023	Industrial Engineering and Operations Management World Congress Detroit, Michigan,	International	2023		RRCE	

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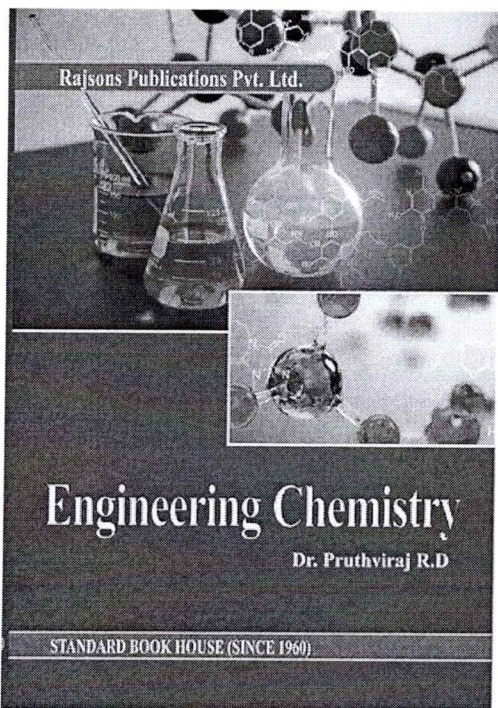
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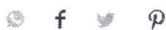
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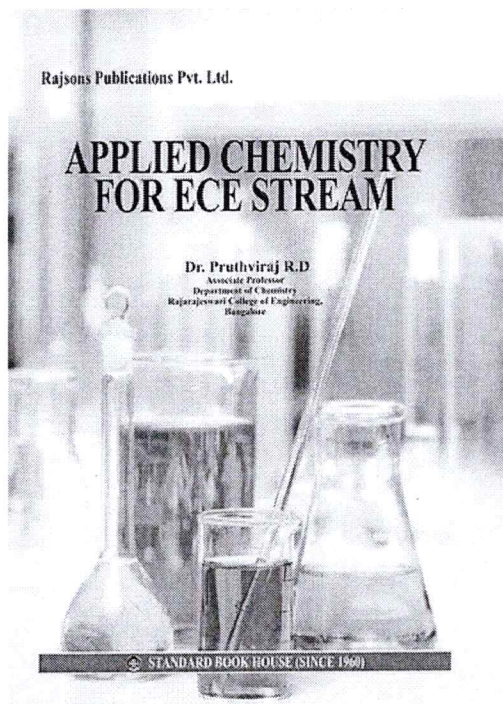
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Preface:

Chemistry is the branch of science that deals with the study of matter, its composition, physical and chemical properties and applications. It is important for engineers to have knowledge of chemistry as those may face problems in fields as diverse as design and development of new materials, quality control and environmental engineering that are basically chemistry oriented in nature. Chemistry is the backbone in designing and understanding the nature of various engineering materials. Many advances

in engineering and technology either produce a chemical demand like polymers, chemical developments for their application in powder metallurgy and alloys, preventing methods of pollution etc. Currently electronics and computer field require biopolymers and nano materials. Electrical engineers require proper conducting materials. Mechanical engineers are in search of micro fluids and civil engineers are looking for environment friendly materials. This book in engineering chemistry is prepared for the students studying I Year Engineering and Technology. This book is written in simple and easily understandable manner. Tabular columns, figures, and worked examples are given wherever necessary. At the end of each chapter, short answer questions and long answer questions are given. Test your understanding questions are given wherever required which will motivate the students for further study.

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Source: Explainable Artificial Intelligence (XAI): Concepts, enabling tools, technologies and applications, 2023

Publication date November 2023

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Abstract

Deep learning has gained a huge commitment to the new headway in man-made brainpower. In contrast with conventional artificial intelligence (AI) techniques, for example, choice trees and backing vector machines, profound learning strategies have accomplished considerable improvement in different forecast assignments. Notwithstanding, deep neural networks (DNNs) are similarly powerless in clarifying their derivation cycles and eventual outcomes. In some certifiable applications, for example, business choice, process advancement, clinical determination, and venture suggestion, reasonableness and straightforwardness of our AI frameworks become especially fundamental for their clients, for individuals who are impacted by AI choices, and besides, for the scientists and designers who make the AI arrangements. This chapter gives an insight into explainable AI, the new and trending current technology used for diverse modern-day applications.

Chapter Contents:

- 1.1 Introduction
- 1.2 Background study
 - 1.2.1 Key-related ideas of XAI
- 1.3 Overview of XAI
- 1.4 History of XAI

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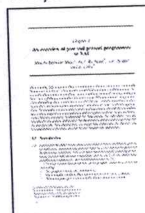
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Abstract

The fledgling concept of graph neural network (GNN) has gained a greater acceptance and adoption in the recent past across domains such as social and transport networks, knowledge graphs (KGs), recommendation, expert and question-answering systems, neurons in the brain, and life science that deals with molecular structure. The unique power of GNNs in modeling the intriguing and intimidating dependencies between nodes in a graph has laid down a stimulating environment for envisaging breakthrough results in the graph theory arena. GNN is a special but powerful type of neural networks. GNNs directly operate on the graph-structured data and are capable of assisting in implementing intelligent systems. In short, GNNs are being viewed as an enabling factor and facet of real digital transformation.

This chapter is to explain the distinct characteristics of GNNs and how they contribute to visualizing and realizing a variety of advanced applications for the impending knowledge era.

Chapter Contents:

- 13.1 Introduction
- 13.2 Briefing the distinctions of graphs
- 13.3 The challenges
- 13.4 ML algorithms

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Abstract

Data mining is the technique used by different algorithms to retrieve the necessary information from an immense amount of datasets. The main objective of this research is to predict the possible level of lung cancer. Several experiments have been conducted using data analysis methods to explain the estimation of lung cancer risks. Cancer is the deadliest illness now, causing a lot of deaths. That's because it is incurable in most situations. But it is not so the case if it is detected at an earlier stage. So an earlier diagnosis is necessary. However, to foresee the incidence of lung cancer, there are so many steps and actions needed. This research is therefore focused on using four data mining methods to forecast risks of lung cancer in patients without much effort using the naive Bayes, decision trees, k-nearest neighbors, and random forest algorithms based on basic parameters. To evaluate the most efficient and productive model, the efficiency of these classification techniques was measured.

Chapter Contents:

- 20.1 Introduction
- 20.1.1 Motivations
- 20.1.2 Scope of data mining
- 20.1.3 Objectives
- 20.1.4 Research questions

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Abstract

The reasonableness and logical AI have started expanding considerably by both examination of local area and industry. Clarifying the capacity of artificial intelligence (AI) gives numerous subjects of dynamic examination by the need of passing on well-being and trust to clients in the "how" and "why" of computerized decision-production in various applications like independent driving, clinical determination, or banking and money. In this chapter, we present a chronicled point of view of explainable AI (XAI). The calculations utilized in AI can be separated into white-box and discovery AI [machine learning (ML)] calculations. White-box models are ML models that give results that are reasonable to specialists in the space. Black-box models, then again, are amazingly difficult to clarify and can barely be seen even by space experts. XAI calculations are considered to follow the three standards of straightforwardness, interpretability, and logic. We examine how reasonableness was mostly imagined before, how it is perceived in the present, and how it very well may be perceived later on. We close the chapter by proposing measures for clarifications that we accept will assume an essential part in the advancement of human-justifiable logical frameworks.

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- 23.1 Introduction

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CNN BRAIN TUMOUR SEGMENTATION AND IMAGEPROCESSING

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ABSTRACT

Brain tumor detection is one of the hardest tasks in medical image processing. Because brain tumors can have a wide range of shapes and textures, the images are very diverse, which makes the detection task difficult.

A brain tumor's diverse cell types can reveal information regarding the tumor's nature, severity, and rarity.

Tumors can originate in a variety of locations, and the tumor's location can provide clues about the types of cells that gave rise to it, aiding in further identification. The difficulties that practically all digital photographs have, such as illumination issues, can make the process of detecting brain tumors more difficult. It is possible for tumor and non-tumor pictures to have overlapping image intensities, making it

Keyword: - Brain Tumor, Deep learning, Convolution Neural Network.

1. Introduction

A brain tumor is a tissue mass where cells proliferate uncontrolled. It develops from several cells, both inside the brain and outside of it. Initial tumors those that emerge from within the brain itself, whereas secondary tumors spread to other areas of the body. Based on the cells or origin derived from various forms of tumors, tumors can have many sources. For instance, grade I or low-grade tumors, such as gangliogliomas, the ones that include neoplastic neurons and are often slow-growing and well-differentiated. Meningioma, which grade I, grade II, or grade III and originates from the meninges (the group of three membranes protecting the spinal cord and brain), is another example.

1.1 Problem Statement

Typically, malignant brain tumors are in the form of blood clots accompanied by fat surrounding it. Detect the location and size of brain cancer required brain tumor pictures. MRI images can help differentiate brain tissue, brain tumors, edema, and spinal fluid-supported differences in color contrast in each tissue. The problem in radiological remains analyzing the results from an MRI brain tumor manually in order that it takes an extended time to seek out the diagnosis from the doctor.

1.2 Existing System

Tumors are the development of unusual cells in our brains. Our skull, which encloses our brain, is very rigid. Any increase inside this type of constrained space can cause issues. According to studies and research, if the tumor is detected in an early stage, the patient can be cured by appropriate treatment. So, it is crucial that you detect and treat the brain tumor in the early stage.

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Automated Facial Emotion Detection using Arithmetic Optimization Algorithm with Deep Convolutional Neural Network for Autonomous Vehicle Drivers

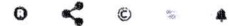
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Facial Emotion Recognition (FER) utilizing Deep Learning (DL) is indeed employed in the context of autonomous vehicle drivers. By investigating the facial expressions of drivers, the vehicle system is gain insights into the emotional state of drivers. FER is given to whole safety by identifying critical emotions like fear, anger, or surprise. When the system identifies these emotions, it responds accordingly by altering the driving performance or taking preventive measures for avoiding potential risks or aggressive maneuvers. The training of the DL algorithms namely Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) are done on the preprocessed data. These approaches learn to extract appropriate features in facial images and forecast the same emotions. This manuscript offers the design of Automated Facial Emotion Detection using Arithmetic Optimization Algorithm with Deep Convolutional Neural Network (AFED-AOADCNN) technique for Autonomous Vehicle Drivers. The purpose of the AFEDAOADCNN technique is to detect various kinds of facial emotions in autonomous vehicle drivers. In this introduced AFED-AOADCNN technique, DCNN method is applied for procedure of feature extraction. Next, the AOA is employed for optimum hyperparameter tuning of the DCNN method. At last, quantized neural network (QNN) approach is exploited for the identification and classification of different kinds of facial emotions. The investigational evaluation of the

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Abstract: Ayurveda is a traditional system of medicine that heavily relies on the habit of medicinal plants for various treatments. In the last few years, there have been an increase in the detection and taxonomy of Ayurvedic plants and their components, especially leaves and flowers, by means of computer vision and machine learning methods. This abstract presents an overview of research on Ayurvedic flora detection, which includes the naming and categorization of numerous plant components, including leaves and flowers. The intent of this research is to create an automated system that can recognize and categorize Ayurvedic flora with accuracy using certain traits including colour, texture, shape, and other morphological properties. In the direction to categorize medicinal plants utilizing leaf and blossom properties including form, size, color, texture, etc., this work suggests a Convolutional Neural Network model with a Deep Learning foundation. Convolutional neural networks, decision trees, and support vector machines, among other machine learning as well as computer vision methods, have been employed in several research. In this field, The recommended datasets include samples of hibiscus flowers from 20 different plants as well as leaves from 40 different medicinal herbs. For effective feature extraction from the dataset, a deep neural network based on Alexnet is used. SVM classifiers are then employed to complete the classification. The proposed work results a classification accuracy of 97.67 after five cross validations.

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The rapid advancement of machine learning (ML) and artificial intelligence (AI) has created an increasing demand for efficient and automated processes in training and deploying AI models. In cloud environments, where vast computational resources are available, orchestrating the entire lifecycle of machine learning workflows becomes crucial to leverage the scalability and flexibility offered by the cloud infrastructure. This research study proposes a novel system architecture and simulation model for machine learning orchestration in cloud environments, aiming to automate the training and deployment of using Distributed Machine Learning (DML) AI model. The proposed system architecture consists of three key components: Job Manager, Resource Manager, and Model Repository. The Job Manager handles the scheduling and coordination of machine learning tasks, ensuring efficient resource allocation and utilization. The Resource Manager dynamically manages the allocation and provisioning of computing resources based on workload demands. The Model Repository acts as a centralized repository for storing and versioning AI models, enabling seamless model deployment and updates. To evaluate the effectiveness and performance of the proposed system architecture, a simulation model is developed. The simulation model provides a cloud environment that mimics real-world cloud scenarios, allowing for extensive experimentation and analysis. Various performance metrics such as training time, resource utilization, and scalability are measured and compared against baseline approaches to

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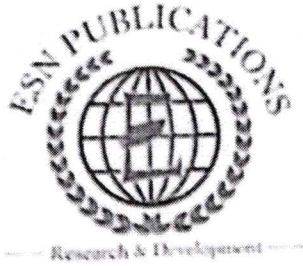
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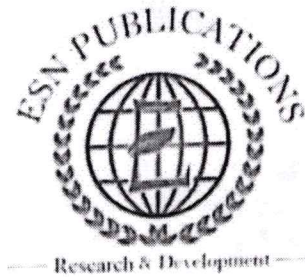
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START UP'S

Abstract

The development of a startup provides useful insights for business executives, entrepreneurs, and anybody else eager to start their own firm. This chapter shows the unyielding spirit of invention and entrepreneurship that fuels the expansion of the startup ecosystem through its compelling tale and insightful insights.

Keywords: Empower, Future

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Chapter 4

Network Anomaly Detection Using a Random Forest Classifier

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Abstract


Machine Learning (ML), which is a sub-section of Artificial Intelligence (AI) which lets in all kinds of programs to emerge as greater way at predicting consequences without being explicitly programmed to do so. ML algorithms use historic records to predict new outputs. Classical device getting to know is frequently categorized with the aid of using how a set of rules learns to grow to be extra correct in its predictions. Network-attacks are looking to be more complex, displaying more problems in accurately recognizing anomalies, and the inability to avert these anomalies may compromise security services' credibility.

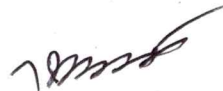
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Editors: Manaswini Pradhan and Satchidananda Dehuri

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Ransomware Classification and Detection: A Supervised Machine Learning Approach



T. Subburaj, K. Suthendran, Srinivasarao Dharmireddi, S. V. Suji Aparna, K. Anish Pon Yamini, S. Ramesh, and C. Abhinav

Abstract Our lives are made simpler and more efficient as the cyber world grows every day. Hidden threats and risks also increase as well. From the past few years, one of the major cyber threats to businesses has been ransomware. Here, the attacker locks the victims valued data and demands a ransom. Ransomware usually encrypts and recovers files from victims or organizations by demanding money for recovery or decryption. We are proposing the RF classifier method to identify the ransomware attacks with high accuracy.

Keywords Machine learning · Cyber security · Ransomware · Random forest

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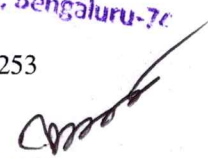
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B. R. Devi et al. (eds.), *Proceedings of Fifth International Conference on Computer and Communication Technologies*, Lecture Notes in Networks and Systems 898,

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DOI: [10.1109/ICSCSCNA58489.2023.10370175](https://doi.org/10.1109/ICSCSCNA58489.2023.10370175)

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SURVEYING ON UBI-BASED SMART FISH FARMING AQUACULTURE MONITORING SYSTEM

Abstract

Water is one of the main elements that has a major impact on ecosystems. However, it is now widely used, which contaminates the water, as a result of fast industrialization, human waste, and careless use of pesticides and chemical fertilisers in agriculture. Installing a water monitoring system is thus necessary to keep track of the water quality over a large area, such as a lake, river, or aquaculture. According to the state of the world today, To monitor, gather, and analyse data from remote locations, a range of subject fields use Internet of Things (IoT) and remote sensing techniques. In this study, a real-time, low-cost system for monitoring water quality in an IoT setting is proposed. Numerous sensors for detecting physical and chemical characteristics are included in this system. The pH, turbidity, conductivity, and dissolved oxygen levels in water can all be determined with these sensors. With the help of this technique, it is possible to analyse online-posted data and gauge the state of water bodies in the present.

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