

List of Journals

PRAJNA BHUNIA

(1) Optimization of Effluents Using Artificial Neural Network and Support Vector Regression in Detergent Industrial Wastewater Treatment, Cleaner Chemical Engineering, 3 (2022) 100039  
<https://doi.org/10.1016/j.clce.2022.100039> Received 13 April 2022; Received in revised form 11 June 2022; Accepted 15 June 2022

DIPLOMA IN COMPUTER SCIENCE &amp; TECHNOLOGY

131 AUGUST 2023

(2) Analyzing of salient features and classification of wine type based on quality through various neural network and support vector machine classifiers, Results in Control and Optimization, 11 (2023) 100219  
<https://doi.org/10.1016/j.rico.2023.100219> Received 31 January 2023; Received in revised form 18 February 2023; Accepted 26 February 2023

(3) Patent: IoT based Automated Viscometer for Chemicals Issued on 28th June, 2024

(4) Enhancing Network Security: A Comprehensive Analysis of Firewalls and a Novel Framework for Vulnerability and Threat Management, Accepted 12th June, 2024, International Journal of HIT Transaction on ECCN 10.5281/zenodo.14740182

(5) A comparative analysis of multiple approaches machine learning for predicting and analysing urine pH amount, Accepted 4th December, 2024, International Journal of HIT Transaction on ECCN 10.5281/zenodo.14740344

(6) Smart Movie Review Analysis: A Data-Driven Sentiment Classification System, International Journal of HIT Transaction on ECCN. (Accepted) 10.5281/zenodo.14740314

(7) AI-Driven Pneumonia Prediction: Integrating Deep Learning with Clinical Diagnostics, presented on 3rd International Conference on Engineering Design and Computing on 5th February, 2025

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(8) Adaptive Mitigation of Zero-Day Vulnerabilities : The Case of Log4Shell using TF-IDF and Random Forest Classifiers, presented on 3rd International Conference on Engineering Design and Computing on 4th February, 2025

#### List of Conference

- a. State Level Seminar on "Call Admission Control in Mobile Cellular Network", 15<sup>th</sup> January, 2009.
- b. State Level Seminar on "Future Trend in Solar Energy Based Systems", 16<sup>th</sup> January, 2009.
- c. 3<sup>rd</sup> International Conference on Mathematics and Computing (ICMC2017), at Haldia Institute of Technology, 17-21 January, 2017.
- d. Remark skill Workshop on AI/ML January, 2024 at IIT Kharagpur in association with Kshitij 2024, the techno-management festival at IIT Kharagpur, 20-21 January, 2024.
- e. 4<sup>th</sup> International Conference on Engineering Mathematics and Computing (ICEMC2024), at Haldia Institute of Technology, 07-09 March, 2024.
- f. One day Seminar on "Awareness of Technology Trends" at Vidyasagar University, 21<sup>st</sup> June, 2024.
- g. 3<sup>rd</sup> International Conference on Engineering Design and Computing at Swami Vivekananda University, 04-06 February, 2025

#### List of Books