INTERNATIONAL CONFERENCE on
RECENT TRENDS IN COMPUTER SCIENCE, TECHNOLOGY, DATA SCIENCE AND APPLICATIONS

ICRTCTDA-2025
7th February 2025

Organized by

Department of Computer Science,
Department of Computer Applications,
Department of Information Technology,
Department of Data Science &
Department of Mathematics

VIDYASAGAR COLLEGE OF ARTS AND SCIENCE
in association with
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ICRTCTDA 2025 –1061

PHISHING WEBSITE DETECTION USING MACHINE LEARNING ALGORITHMS

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Abstract

Phishing attacks are one of the simplest methods used to obtain sensitive information from unsuspecting users. The primary goal of phishers is to steal critical details such as usernames, passwords, and bank account information. Cybersecurity experts are actively exploring reliable and robust detection techniques to identify phishing websites effectively. This study focuses on utilizing machine learning techniques to detect phishing URLs by extracting and analysing various features of legitimate and fraudulent URLs. Algorithms like Decision Tree, Random Forest, and Support Vector Machine are employed to identify phishing websites. The objective of this research is not only to detect phishing URLs but also to identify the most effective machine learning algorithm by comparing their accuracy, false positive rates, and false negative rates.

ICRTCTDA 2025 –1062

LINEAR REGRESSION MODEL IN STUDENT PREDICTION SYSTEM

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Abstract

Logistic Regression is a widely used statistical method for predicting a categorical dependent variable based on a set of independent variables. Recognized for its adaptability and frequent application, logistic regression is particularly effective in modeling binary and multinomial outcomes. This paper provides a clear and detailed exploration of the fundamental concepts of

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logistic regression and demonstrates its application in predictive analysis using student data. Through this practical example, the paper highlights the method's utility in identifying relationships and making informed predictions in student educational contexts.

ICRTCTDA 2025 –1063

Environmental Impact and Community Health in Navi Mumbai

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Abstract

This qualitative research explores the intersection of environmental factors and community health in Navi Mumbai. The study examines air, water, and noise pollution's impact on the residents' well-being, focusing on key environmental stressors and their correlation with health outcomes. The research employs in-depth interviews, focus group discussions, and thematic analysis to derive insights. Recommendations for mitigating adverse impacts and fostering sustainable urban development are discussed.

ICRTCTDA 2025 –1064

PLANT LEAF DISEASE DETECTION USING ADAPTIVE FUZZY AND BACK PROPAGATION NEURAL NETWORK (BPNN) BASED CLASSIFICATION

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Abstract

Agriculture has a major role in the growth and development of every nation's economy. The productivity of the agriculture industry is impacted by the advent of multiple plant-related illnesses. Plant disease detection is important for managing this problem, educating farmers about preventing illnesses from spreading, and implementing efficient management practices. Agriculture continues

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