SKCET Buzz

19th - 25th April 2025

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STUDENTS PROGRESSION

CIVIL | SUMMER INTERNSHIP

Congratulations on being selected for the Summer Internship Program 2025 at NIT Calicut!

Please visit the official website to view the details of your assigned guide and project.

To confirm your participation, kindly submit the Google Form after making the payment by **5:00 PM on 20th April 2025.**

https://forms.gle/5kAG8cD5jnfw8kD87

If you require hostel accommodation, please indicate your preference in the form. Kindly note that hostel facilities will be available only after 12th May 2025. Further details regarding accommodation will be shared next week.

We look forward to your participation!

Regards,
Faculty Coordinator
Summer Internship Programme 2025
Centre for Career Development (CCD)
करियर विकास केंद्र
National Institute of Technology Calicut
राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट
Ph: 0495-2286601

Keerthanaa R, student of **Second** year **Civil** Engineering has been selected for the **Summer Internship Programme 2025** at NIT Calicut. This is a part of the initiatives of the Centre for Career Development (CCD) of NIT, Calicut.

CSBS | WATT'S NEXT

COIMBATORE INSTITUTE OF TECHNOLOGY
(A Govt aided autonomous institution affiliated to Anna University)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECT-ERA'25

CERTIFICATE OF APPRECIATION

This certificate is proudly presented to

Mr/~~Ms.~~ LIONEL ROSHAN P

of SRI KRISHNA COLLEGE OF ENGINEERING

participated in WATT'S NEXT during ELECT-ERA'25 - A National level technical symposium held at Coimbatore Institute of Technology and secured 3rd place, on 28th MARCH 2025.

Title Sponsored by

LS ELECTRIC Everest Energy & Technology

DR.S.VASANTHARATHNA
HEAD OF THE DEPARTMENT EEE

Lionel Roshan P, student of **Final** year **CSBS** has secured **3rd Place** in the **"WATT'S NEXT"** in **ELECT-ERA 25, a National Level technical Symposium** organized by **Coimbatore Institute of Technology,** Coimbatore on 28th March 2025.

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PLACEMENT AND TRAINING

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EEE | PLACEMENT TESTIMONIALS

As I embark on this exciting new chapter, I want to express my heartfelt gratitude to the Head of the Department, year coordinator, tutors and the faculty members of EEE department who provided me with unwavering support and guidance, which have been instrumental in helping me achieve my goals. Thanks to their efforts, I have secured a position at Accenture.

This accomplishment reflects the exceptional education and experiences I have received. As I step into this new role, I am both excited and humbled by the opportunities ahead. With the support of my mentors and peers, and the knowledge I've gained, I look forward to make meaningful contributions to society and building a successful career. Thank you once again for being an essential part of my journey and helping me reach this milestone.

REJIV ELSHAN NIFY
EEE
ACCENTURE

ECE | PLACEMENT TESTIMONIAL

I am Rathipriya B, a final-year student pursuing Electronics and Communication Engineering (2021–2025 batch) at SKCET. My journey at Sri Krishna College of Engineering and Technology has been truly transformative and enriching. The institution structured curriculum, supportive faculty and emphasis on hands-on learning have helped me grow both academically and personally.

Through workshops, projects and internships, I've gained valuable exposure that has strengthened my technical skills and boosted my confidence.

I am especially grateful to the faculty and placement cell for their continuous encouragement and guidance, which have played a crucial role in shaping my professional path. Being a part of the Sri Krishna family fills me with immense pride and I will always cherish the memories and lessons that have laid a strong foundation for my future.

RATHIPRIYA B,
ECE
INTEGRA CONNECT

EEE | PLACEMENT TESTIMONIAL

I'm Ajay K, a final-year student of Electrical and Electronics Engineering (2021–2025 batch) at SKCET. I'm happy and proud to share that I've been placed in Procyon. This achievement is a result of the great academic environment, technical training, and constant support I've received from SKCET.

The college has helped me build strong technical skills through its practical and industry-focused curriculum. Apart from academics, the training in communication, leadership, and problem-solving has helped me grow personally and professionally. I'm truly grateful to the faculty and placement team for their guidance and encouragement throughout my journey.

I sincerely thank the Principal and all the faculty members at SKCET for creating a space that encourages learning and innovation. As I get ready to begin this new journey with Procyon, I'm excited to use everything I've learned and take on new challenges with confidence.

AJAY K,

EEE
PROCYON

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R&D | JOURNAL PUBLICATION| CIVIL

Oxidation Communications 48, No 1, 1–1 (2025)

4009

INTEGRATED MEMBRANE CATALYSIS AND ELECTROCHEMICAL SYSTEMS FOR SUSTAINABLE WASTEWATER TREATMENT

S. SARVESWARA REDDY[a]*, PRIYANKA BHATNAGAR[b], S. SATHYA[c], M. P. INDUMATHI[d], J. GEETHA PRIYA[e], S. BHAGAVATHI PERUMAL[f], SANDEEP GUPTA[g], M. SUDHAKAR[h], JIM MATHEW PHILIP[i], RAJARAM AYYASAMY[j]

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[b]*School of Basic and Applied Sciences, IILM University, Greater Noida, Uttar Pradesh 201 306, India*
[c]*Department of Mathematics, Panimalar Engineering College, Chennai, Tamil Nadu 600 123, India*
[d]*Department of Science and Humanities (Chemistry), R.M.K.College of Engineering and Technology, Thiruvallur, Tamil Nadu 601 206, India*
[e]*Department of Computer Science and Engineering, R.M.D. Engineering College, Kavaraipettai, Tamil Nadu 601 206, India*
[f]*Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu 641 008, India*
[g]*Department of Electrical Engineering, Graphic Era (Deemed to be University), Dehradun, Uttarakhand 248 002, India*
[h]*Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai, Tamil Nadu 600 044, India*
[i]*Department of Computer Science and Engineering, Sri Ramakrishna Institute of Technology, Coimbatore, Tamil Nadu, India*
[j]*Department of Electronics and Communication Engineering, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu, 611 002, India*

ABSTRACT

Integrated membrane catalysis and electrochemical systems are a promising path to solving the problem of cleaning wastewater from numerous and diverse pollutants. This immunoaffinity membrane integrated with catalytic and electrochemical processes improves the degradation of pollutant, energy saving, and can be applied to different

* For correspondence.

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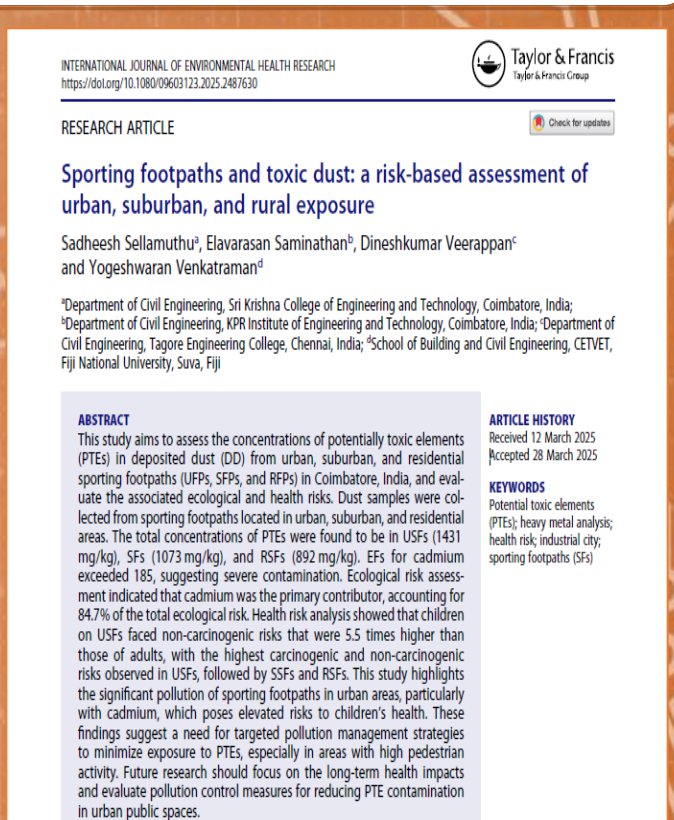
Dr. S. Bhagavathi Perumal, Professor, **Civil** and Dean, Hostels and Academic Affairs, has published a research article titled **"Integrated membrane catalysis and electrochemical systems for sustainable wastewater treatment"** in Oxidation Communications. It is indexed in SCI and Scopus.

R&D | JOURNAL PUBLICATION | CIVIL

Dr. S. Sadheesh, Assistant Professor, Department of **Civil** Engineering, has published a research article titled **"Sporting footpaths and toxic dust: a risk-based assessment of urban, suburban, and rural exposure"** in Oxidation Communications. It is a Q1 journal indexed in SCI and Scopus.



INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH
https://doi.org/10.1080/09603123.2025.2487630

Taylor & Francis
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RESEARCH ARTICLE

Check for updates

Sporting footpaths and toxic dust: a risk-based assessment of urban, suburban, and rural exposure

Sadheesh Sellamuthu[a], Elavarasan Saminathan[b], Dineshkumar Veerappan[c] and Yogeshwaran Venkatraman[d]

[a]Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India; [b]Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore, India; [c]Department of Civil Engineering, Tagore Engineering College, Chennai, India; [d]School of Building and Civil Engineering, CETVET, Fiji National University, Suva, Fiji

ABSTRACT

This study aims to assess the concentrations of potentially toxic elements (PTEs) in deposited dust (DD) from urban, suburban, and residential sporting footpaths (UFPs, SFPs, and RFPs) in Coimbatore, India, and evaluate the associated ecological and health risks. Dust samples were collected from sporting footpaths located in urban, suburban, and residential areas. The total concentrations of PTEs were found to be in USFs (1431 mg/kg), SFs (1073 mg/kg), and RSFs (892 mg/kg). EFs for cadmium exceeded 185, suggesting severe contamination. Ecological risk assessment indicated that cadmium was the primary contributor, accounting for 84.7% of the total ecological risk. Health risk analysis showed that children on USFs faced non-carcinogenic risks that were 5.5 times higher than those of adults, with the highest carcinogenic and non-carcinogenic risks observed in USFs, followed by SSFs and RSFs. This study highlights the significant pollution of sporting footpaths in urban areas, particularly with cadmium, which poses elevated risks to children's health. These findings suggest a need for targeted pollution management strategies to minimize exposure to PTEs, especially in areas with high pedestrian activity. Future research should focus on the long-term health impacts and evaluate pollution control measures for reducing PTE contamination in urban public spaces.

ARTICLE HISTORY
Received 12 March 2025
Accepted 28 March 2025

KEYWORDS
Potential toxic elements (PTEs); heavy metal analysis; health risk; industrial city; sporting footpaths (SFs)

R&D | PATENT PUBLICATION | CSBS

ORIGINAL
क्रम सं/ Serial No. : 195471

INTELLECTUAL PROPERTY INDIA

पेटेंट कार्यालय, भारत सरकार — The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 443647-001

तारीख / Date : 09/01/2025

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AI BASED DIGITAL EDUCATIONAL DISPLAY DEVICE* से संबंधित है, का पंजीकरण, वेणी 20-03 में 1.Dr.K.L.Shunmuganathan 2. Dr. Hardeep Singh 3.Ms.D. Sri Dhivya 4.Dr.E.Balamurali 5.Mr. Rahamathullah Ubaidullah 6.Dr.F.Margret Sharmila 7.Dr.S.Balakrishnan 8.Mr. S. Simonthomas के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 20-03 in respect of the application of such design to *AI BASED DIGITAL EDUCATIONAL DISPLAY DEVICE* in the name of 1.Dr.K.L.Shunmuganathan 2. Dr. Hardeep Singh 3.Ms.D. Sri Dhivya 4.Dr.E.Balamurali 5.Mr. Rahamathullah Ubaidullah 6.Dr.F.Margret Sharmila 7.Dr.S.Balakrishnan 8.Mr. S. Simonthomas.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 26/03/2025
Date of Issue

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

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Dr. F. Margret Sharmila, Assistant Professor, **Computer Science and Business Systems** have published a patent title "**AI Based Digital Educational Display Device**", in the Patent Office, Government of India.

R&D | PAPER PUBLICATION | ECE

Ms.N.Nanthini, Assistant Professor, Department of **ECE** presented and published her conference papers **"A Novel Approach for Prediction of the Lung Disease using Deep Learning"** at 2024 8th International Conference on Inventive Systems and Control, ICISC 2024. It is a Scopus Indexed Conference.

ieeexplore.ieee.org/document/10677628/authors#authors

Conferences > 2024 8th International Confer...

A Novel Approach for Prediction of the Lung Disease using Deep Learning

Publisher: IEEE | Cite This | PDF

N. Nanthini ; D Aishwarya ; Angelin Simon ; N Baby Vishnupriya ; K. Jeyalakshmi All Authors

18 Full Text Views

Abstract
Document Sections
I. Introduction
II. Existing System
III. Proposed System
IV. Methodology
» Sample Datasets:
Show Full Outline
Authors
Figures
References
Keywords

Abstract:
The application of cutting-edge technologies in caused by the unwanted thickening of the areas in the lungs which can due to fibrosis), pneumonia (a condition where the alveoli or sacs in one or both of healthcare has the potential to transform diagnostic capacities and enhance patient care. This research investigates how deep learning and mobile app development may work together in analyzing X-ray images to detect lung problems. With the help of Flutter's adaptability and Convolutional Neural Networks' (CNNs) capability, the proposed system enables real-time X-ray image processing on mobile devices. The proposed solution provides a user-friendly tool for accurate diagnosis and prompt intervention to healthcare practitioners with effective data preprocessing, model training, and interaction with the Flutter framework. Beyond its current deployment, the future scope of this study includes the potential for additional improvement, growth into other medical imaging modalities, and integration with cloud-based healthcare systems. By applying more innovation and collaboration, digital technology can improve healthcare outcomes and enhance the well-being of patients across the globe.

Published in: 2024 8th International Conference on Inventive Systems and Control (ICISC)

Date of Conference: 29-30 July 2024 | DOI: 10.1109/ICISC62624.2024.00070

Date Added to IEEE Xplore: 19 September 2024 | Publisher: IEEE

ISBN Information: | Conference Location: Coimbatore, India

R&D | PAPER PUBLICATION | AI & DS

Optimizing the Allocation of Dynamic Workloads in Cloud Infrastructure through the Use of Machine Learning for Cost-Effective Cloud Resource Management

Publisher: IEEE | Cite This | PDF

Kalaimagal Sivamuni ; Pugalendhi G S ; V. Samuthira Pandi ; Shobana D ; Lakshmi Priya J ; V Archana All Authors

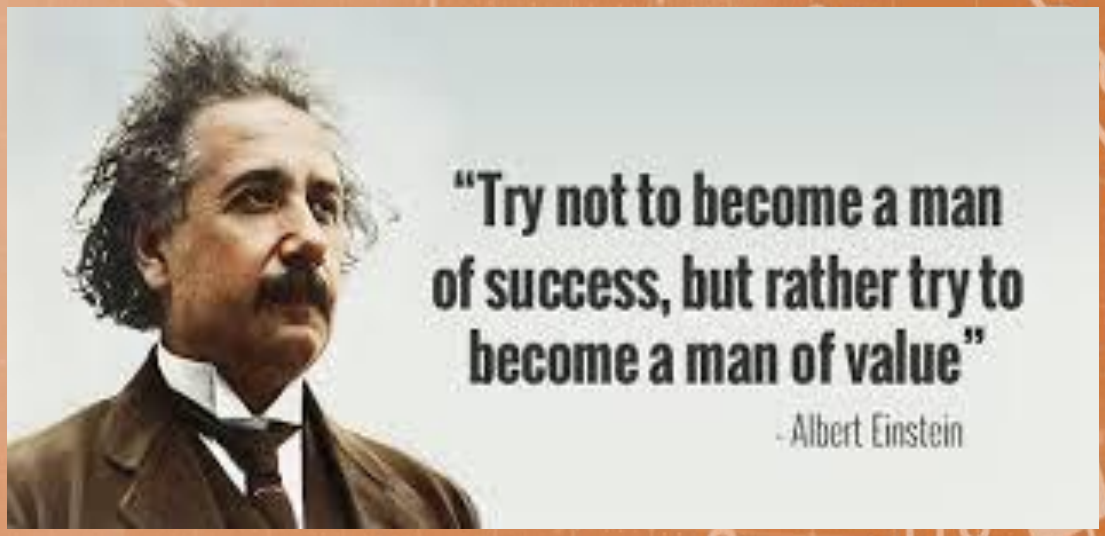
Abstract
Document Sections
I. Introduction
II. Literature Review
III. System Implementation
IV. Result and Discussion
V. Conclusion
Authors
Figures
References
Keywords

Abstract:
The effective administration of dynamic workloads has emerged as a major obstacle for enterprises moving their operations to cloud computing. Intelligent allocation algorithms that guarantee optimal performance while minimizing operational expenses are necessary due to the fluctuation in demand for cloud resources. In order to achieve efficient and economical management of cloud resources, this study explores the use of machine learning (ML) methods to improve the distribution of dynamic workloads inside cloud infrastructure. In order to examine past workload data and forecast future resource needs, we present a thorough system that employs multiple ML algorithms, including supervised and unsupervised learning approaches. Our framework's goal is to automatically adjust to changing workload patterns and avoid under- or overprovisioning of resources by using data-driven insights to improve resource allocation in real-time. The platform relies on predictive analytics to foretell changes in workload, automatic resource scaling according to demand forecasts, and reinforcement learning to enhance allocation tactics in real-time. Extensive simulations and case studies are conducted across various cloud settings to test the efficiency of the proposed framework. In comparison to more conventional allocation strategies, the results show markedly higher rates of resource usage and lower costs. The flexibility of the framework to handle different types of workloads also highlights its wide range of possible uses in cloud computing. This research adds to the existing literature on cloud resource management and provides a solid method for improving the overall efficiency of cloud infrastructure and maximizing the distribution of workloads. Results highlight machine learning's revolutionary effect in propelling affordable cloud-based solutions for dynamic workload control.

Published in: 2025 International Conference on Intelligent Control, Computing and Communications (IC3)

Mr.G.S.Pugalendhi, Assistant Professor, **AI &DS** have published a paper title "**Optimizing the Allocation of Dynamic Workloads in Cloud Infrastructure through the Use of Machine Learning for Cost-Effective Cloud Resource Management",** Publisher: IEEE, DOI: 10.1109/IC363308.2025.10957371.

LEGENDARY INSIGHT



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ECE | FACULTY CERTIFICATION

Certificate for the Completion of
OpenPLC with LDmicro Training

Spoken Tutorial Project at IIT Bombay

This is to certify that **THIRUMARAISELVI C** has successfully completed **OpenPLC with LDmicro** test organized at **Sri Krishna College of Engineering & Technology** by **Granty Regina Elwin J** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.
karthik v from **Sri Krishna College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

Credits: 2 **Score:** 57.50%

December 7th 2024

Prof. Kannan M Moudgalya
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.

1419300SSH

Dr. C. Thirumarai Selvi, Professor of **ECE** department have successfully completed certification on **Open PLC with LD Micro test** offered by Spoken tutorial project, IIT Bombay.

ECE | FACULTY CERTIFICATION

Dr D MohanaGeetha, Professor of **ECE** department have successfully completed certification on **Moodle test for Teachers** offered by Spoken tutorial project, IIT Bombay.

Certificate for the Completion of
Moodle Test for Teachers Training

Spoken Tutorial Project at IIT Bombay

This is to certify that **MOHANA GEETHA** has successfully completed **Moodle Test for Teachers** test on **2025-03-08** organized at **Sri Krishna College of Engineering & Technology** by **Granty Regina Elwin J** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this Faculty Development Programme.

karthik v at **Sri Krishna College of Engineering & Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

Prof. Kannan M Moudgalya
IIT Bombay

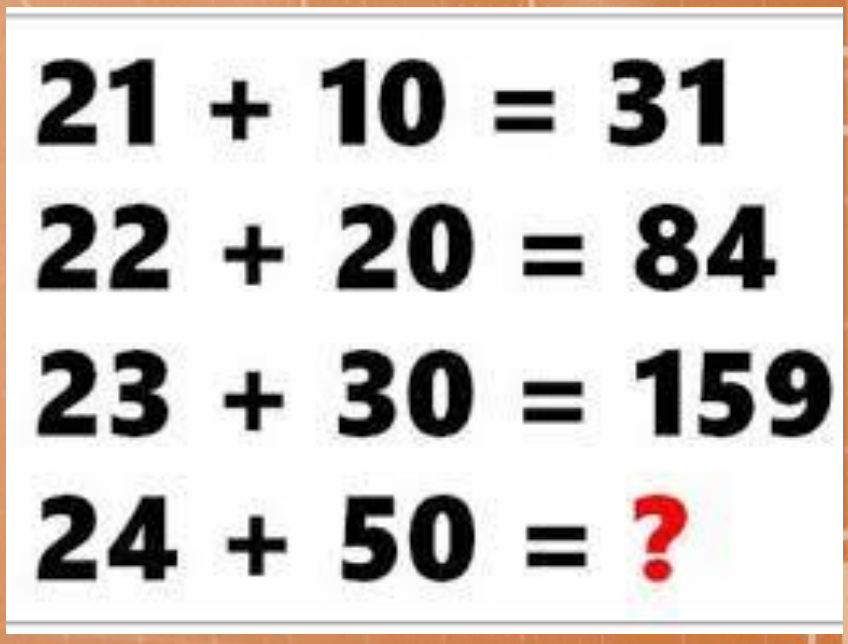
Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

4061541BQI

AI & DS | FACULTY CERTIFICATION

Mr.Senthil Kumar S, Assistant Professor of **AI & DS** department have successfully completed certification on "**How to integrate sex, gender, and intersectional analysis into research (60 minutes)"** offered by Researcher Academy.

CAN YOU SOLVE?



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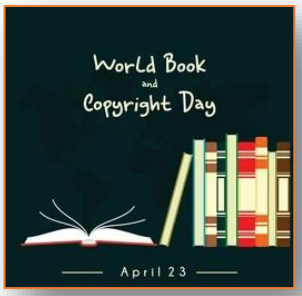
ECE | WORLD BOOK AND COPYRIGHT DAY
23 April 2025



The Timeless Magic of Books

Books are portals to infinite realms, where words weave dreams, ignite revolutions, and preserve the heartbeat of humanity. On April 23, 2025, World Book and Copyright Day, we celebrate the transcendent power of literature to connect souls across time and space. From ancient scrolls to digital pages, every story invites us to explore uncharted worlds, challenge our beliefs, and embrace the beauty of shared experiences. Let's honor the authors whose voices echo through generations and the readers who keep their legacies ablaze.

Championing Creative Rights

Copyright is the guardian of imagination, ensuring creators can share their masterpieces without fear of theft or exploitation. On this Global Day of Reflection, we salute the laws that empower authors, artists, and innovators to enrich our lives with bold, original works. By protecting intellectual property, we cultivate a world where creativity thrives, and every story finds its rightful place in the tapestry of human culture.

Beyond protection, copyright sparks a delicate dance between access and ownership, balancing the public's thirst for knowledge with the creator's right to control their legacy. On April 23, 2025, let's pledge to respect these principles, fostering an ecosystem where writers are free to dream, and their stories continue to inspire, challenge, and transform us for generations to come.