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STUDENTS PROGRESSION



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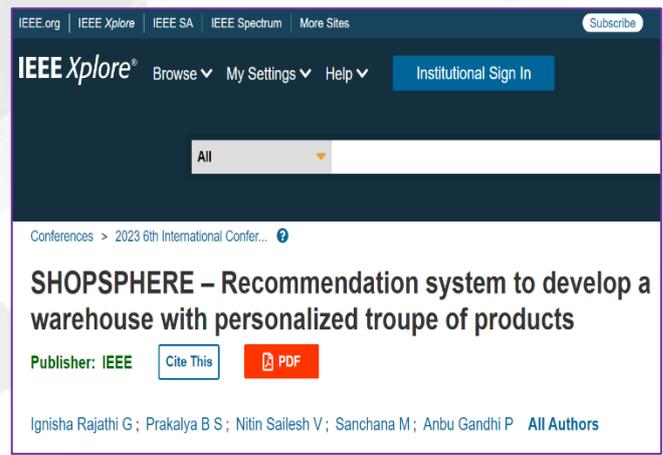


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CSBS | IEEE PAPER PUBLICATION



following year students from the Department of **Computer Science and Business Systems** have published their papers in the IEEE Xplore on 02.04.2024.

Name of the Students	Supervisor	Title and Web link
Sneha rajalakshmi P Midhun Kumar V N Vikash Kumar S	Dr.G.Ignisha Rajathi, Associate Professor, CSBS	KENKO - AN AI SYSTEM TO HOLD HEALTH RECORDS AND ASSIST INDIVIDUALS ACROSS CROSS DOMAINS https://ieeexplore.ieee.org/document/10480756
Shree Harini R Vityarubbasiri M Gopi Krishna S	Dr.F.Margret Sharmila, Assistant Professor, CSBS	DETECTION OF PANCREATIC CANCER CELLS AT EARLY STAGE AND RECOMMEND THE TREATMENT PROCESS https://ieeexplore.ieee.org/document/10480749
Prakalya B S Nitin Sailesh V Sanchana M Anbu Gandhi P	Dr.G.Ignisha Rajathi, Associate Professor, CSBS	SHOPSPHERE – RECOMMENDATION SYSTEM TO DEVELOP A WAREHOUSE WITH PERSONALIZED TROUPE OF PRODUCTS https://ieeexplore.ieee.org/document/10480838



STUDENTS CERTIFICATION



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AI&DS | COURSERA CERTIFICATION



Naveen T, student of **First year AI & DS** has successfully completed a course titled “**Introduction to Cybersecurity Tools & Cyber Attacks**” offered by **Coursera**.

AI&DS | GREAT LEARNING



Tharun Kumar M, student of **First year AI & DS** has successfully completed a course titled “**Tableau for Beginners**” offered by **Great Learning Academy**.

MCT | WORKSHOP PARTICIPATION



Varun.S.,SibiSivanezhil.B, Raghul. S, SujethTamilselvan, Pranav, students of **Second year MCT** have participated in 2 Days “**National Tech Workshop Series 2024**” on “**Energy Conservation**” organized by Techobytes Technologies in collaboration with Saarang 24 annual cultural fest of IIT Madras, Chennai from 6th - 7th April 2024 at IIT Madras, Chennai.

AI&DS | INTERNATIONAL CONFERENCE- ICIT-24



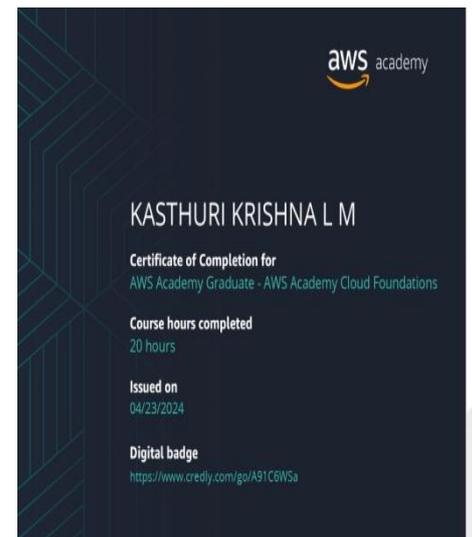
Prajwal Raj R, student of First year **AI&DS** has participated in an International Conference on “**Intelligent Computing & Information Technology**” (**ICIT-24**) hosted by Erode Sengunthar Engineering College, Erode on 03.04.24 and 04.04.24

AI&DS | WORKSHOP ON DATA TABLEAU

Akash M, student of First year **AI&DS** has participated in a workshop on “**Data Tableau**”, offered by Jobaaj Learning on 24.04.2024.

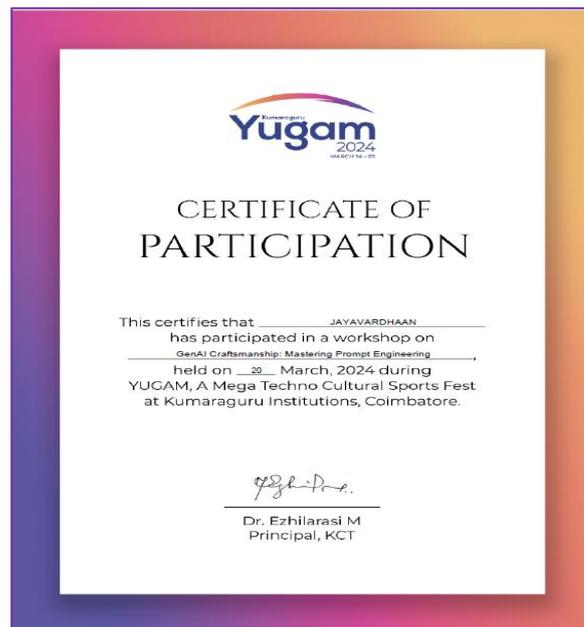
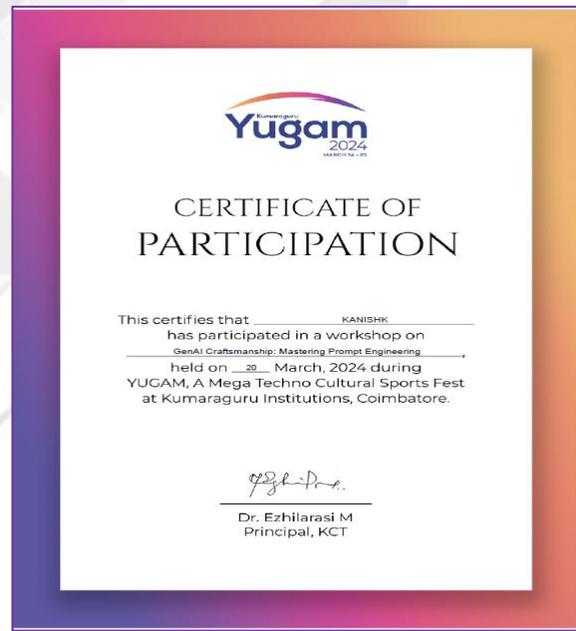
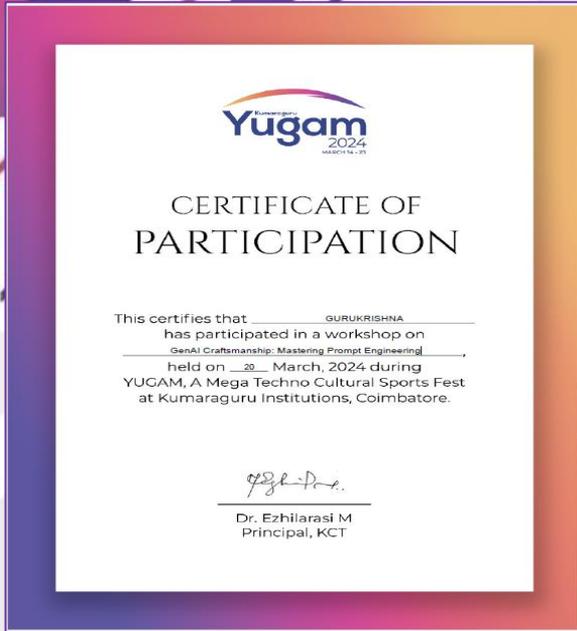


CSY | AWS CERTIFICATION



Adithya Bhuvaneshwaran R, Pragadheeshwaran P, Sivadharane S, Yakshini Varsha KS, Karthika G, Kasthuri Krishna L M, students of Second year Computer Science and Engineering (Cyber Security) have received Certificate of Completion on "**AWS Academy Cloud Foundations**" on successful completion of the 20-hour AWS Academy Course.

AI&DS | WORKSHOP ON GENAI CRAFTSMANSHIP



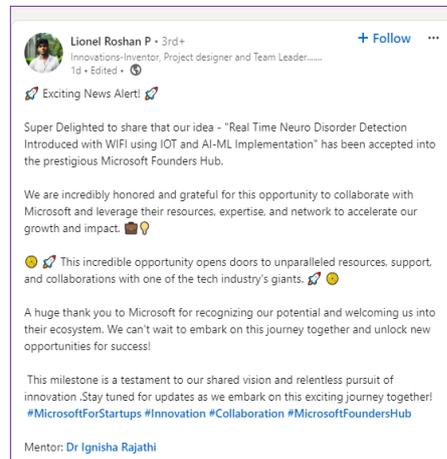
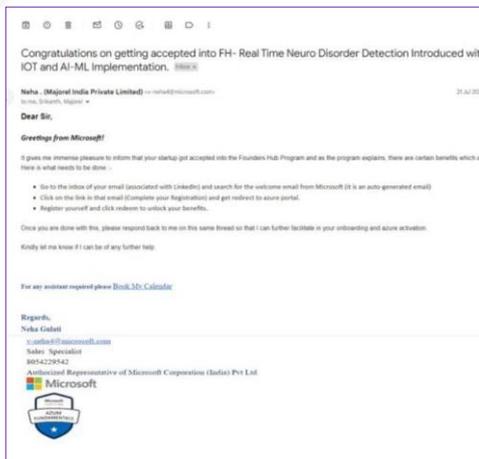
Gurukrishna, Kanishk, Jayavardhaan, students of First year **AI&DS** have participated in a workshop on “**GenAI Craftsmanship: Mastering Prompt Engineering**”, hosted by Yugam, Kumaraguru college of Technology on 20.04.2024.

CSBS | CODSOFT CERTIFICATION



Sanjay Ragavendra S, Bharanidharan G, student of First year Computer Science and Business Systems have successfully completed 4 weeks of a virtual program in “**Web Development**” with wonderful remarks at CODSOFT from 01/03/2024 to 31/03/2024.

CSBS | IDEA PITCHING



Lionel Roshan P, student of Third year Computer Science and Business Systems, has pitched his idea of “**FH-Real Time Neuro Disorder Detection Introduced with Wi-Fi using IOT and AI-ML Implementation**” and has been appreciated and accepted by the Prestigious Microsoft Founders Hub.
Mentor: Dr. G. Ignisha Rajathi, ASP/ CSBS

ECE | NGI HACKATHON



Jacindha R , Ajaibia P, Dharshini M and Harinisree G, students of Second year ECE have participated in NGI Hackathon 2024 conducted by Nehru group of Institutions Technology Business Incubator, Coimbatore on 16th April 2024.

ECE | WORKSHOP ON DEEP LEARNING



Devagi S and **Anantharoopine K**, students of **Second year ECE** have attended a workshop titled **“Deep Learning”** conducted as a part of **“Lunara 24”** on 12th and 13th April 2024 at Bannari Amman Institute of Technology.

AI&DS | WORKSHOP ON DATA TABLEAU

Amisha Ashiq Ali, student of First year **AI & DS** has successfully completed a course titled **“Java Essentials”** offered by **Infosys Springboard** on **23.04.2024**.



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EVENTS



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EEE & MECH | ISNEE MOTORSPORTS - INTERACTION



Mr. Krishna Kumar, Project Kart Manager from **ISNEE Motorsports, New Delhi**, engaged in discussions with **Dr. P. AshokaVarthanan**, Dean - R&D, Innovations & Head of Mechanical Engineering, and **Dr. K. C. Ramya**, HoD of Department of Electrical and Electronics Engineering, along with Kart faculty mentors for Industry-Academia collaboration on April 23, 2024. The aim of this interaction was to enhance student's skills and industry knowledge.

Highlights of the Interaction

- Internships and Training programs
- Hiring plans for third and final-year students
- Value-added courses in niche technologies
- Establishment of student chapters to provide networking opportunities, workshops, and events to enrich students' academic journey

CIVIL | WORKSHOP ON FUTURE TRENDS AND INNOVATION IN BUILDING INFORMATION MODELING



Department of **Civil Engineering** organised a one-day workshop on **Future Trends and Innovation in Building Information Modeling** at Library Cadd lab on 16th April 2024. The resource person was **Mr.Vineesh Kumar**, Autodesk ACI, Director – CADCENTER, Palakkad.

Session Takeaways:

- Introduction of BIM
- Basics of REVIT software
- Project Management
- Visualization
- MS project software.

CSBS & CSY | WORLD CREATIVITY AND INNOVATION DAY CELEBRATION



Department of Computer Science and Business Systems and Computer Science and Engineering [Cybersecurity] in association with IIC organized "**Creative Artistry**" and "**Pen Your Innovative Patent**" for the students to showcase their Creative Artistry and Patents. A total of 13 teams participated, presenting a diverse range of Creativity and Patent.

1. Creative Artistry: Winners

First Prize: I CSE - Ratik Krishna M P & Saran Srinivaas V

Second Prize: II CSBS - Durairaj S

Third Prize: II CSBS - Ramanasri S

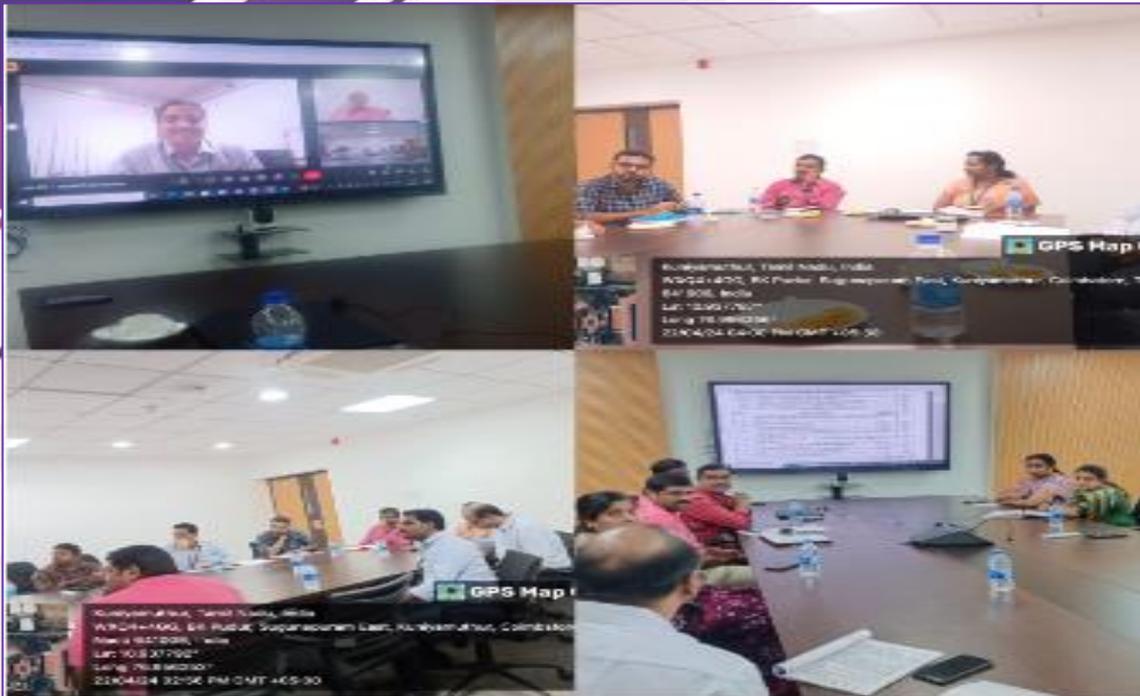
2. Pen your Innovative Patent: Winners

First Prize: II CSBS - Subash R

Second Prize: II CSBS - Harshavardhini D & Thithiksha J

Third Prize: II CSBS - Dhanush S & Sasindharan S

MCT | BOS MEETING



SKCET - MCT: 16th Board of Studies Meeting-22.04.2024

16th Board of Studies Meeting was organized by the Department Mechatronics Engineering for the approval of Core and Elective Courses for Regulation 2022.

BoS Members:

University Nominee:	Academic Experts:	Industry Expert	Alumni Member:
Dr.G.B. Bhaskar, Professor, Department of Production, Technology, MIT Campus, Anna University, Chennai	Dr R Senthilnathan Professor, Mechatronics Engineering, SRM Institute of Science and Technology, Chennai.	Mr Anand Rajkumar P Regional Service Manager -South India, Customer Service Divisions, Yokogawa India Ltd, Chennai.	Mr Venkkataraman R (Batch 2006-2010) Cloud Architect, Presidio Solutions Private Limited, Coimbatore.
	Dr. Arun Tom Mathew Professor, Mechanical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.		

ECE | WORKSHOP ON QUADCOPTER DRONES



SRI KRISHNA
COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution | Approved by AICTE | Affiliated to Anna University, Chennai
Kuniyamuthur, Coimbatore - 641008

IEEE Madras Section | INDIA'S EDUCATION'S INNOVATION COUNCIL | SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY | Alpheron

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Cordially invite you all for the

Hands on workshop on Quadcopter drones

Resource Person
Dr. Darshan Kumar J
Consultant
Dautya Aerospace Private Limited and Landrotics Solutions
Coimbatore

Presided by
Dr. S. Sophia
Principal, SKCET

Felicitated by
Dr. S. Sasipriya
HOD / ECE, SKCET

23-04-2024 @ 9.30 AM to 4.30 PM

DSP Lab, ECE Block | @skcetofficial

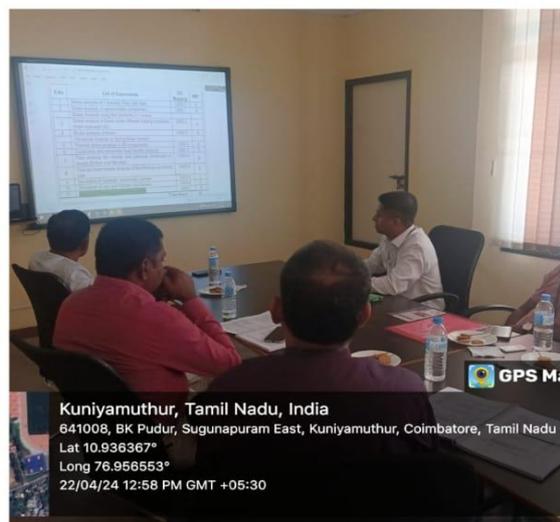
Department of **ECE** in association with UAV & UGV Club organized a Hands on "**Workshop on Quadcopter Drones**" for ECE students on 23.04.2024

Resource Person: Dr. Darshan Kumar J, Consultant, Dautya Aerospace Private Limited

Session Highlights:

- Classification of drones
- Certification and remote pilot licensing of drones
- Components in Quadcopter
- Developing a Quad copter
- Hands on experience in assembling and flying a drone.

MECH | BOS MEETING



Mechanical Department conducted **Board of Studies** meeting on 22.04.24 by Dr.P. Ashoka Varthanan, HoD, Mechanical Engineering. **Dr. G.B. Bhaskar**, Prof/MIT campus, Chennai, **Dr. T.J. Sarvothama Jothi**, Prof/ NIT Calicut and **Mr. T. Amarnath**, Manger-Kaizen, CMI Engg, CBE were the subject experts. The experts appreciated the design and structure of the curriculum and emphasized the real time scenarios in classroom teaching. The discussion was very productive with an understanding on the topics to map with the syllabus content.

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PLACEMENT AND TRAINING



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SKCET | PEGA UNIVERSITY ACADEMIA - ANNUAL MEET 2024



Dr. Jayasudha Subburaj, Dean Placement participated in Pega University Academia Annual program (Pega - UAP) on 18.4.24 at Hyderabad.

Pega UAP annual program is attended by academic partnering colleges, esteemed recruiters, Top Pega certified student from colleges across India, Pega developers and talentsprint leaders.

Session Highlights

- Muralidharan.G, Pega certified student of **Final** year **ECE** has been appreciated with the “**Best Outgoing student** “award from Pega Systems Global leaders from USA & India. He has been specially appreciated by the Pega Leadership team for his stupendous performance in Pega Program.
- 34 students from Sri Krishna Institutions have been placed through this program with CTC 5 - 9 LPA.

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

My name is Ramya M, and I recently graduated from the Mechatronics Engineering program in the 2024 batch at SKCET. My journey at SKCET has been incredibly rewarding, providing me with a wealth of knowledge and experience. Throughout my time there, I actively participated in both academic pursuits and extracurricular activities. SKCET played a pivotal role in enhancing my skills through participation in various hackathons and events. Additionally, I secured an internship at Kone during my third year, followed by a placement at JSW Salem, thanks to the support of the placement sessions and the dedicated staffs in my department. I am grateful to my parents, the SKCET management, the principal, and the entire SKCET community for nurturing my career and providing me with a solid foundation for success.

**RAMYA M, MCT,
JSW**



PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

I am E. Kapil from Batch 2020-Civil Engineering. My experience in SKCET was really good. It was highly productive, engaging and motivating. It helped me to gain knowledge in various aspects. I am grateful to my college for shaping me into a well-rounded individual and providing me with the tools I needed to succeed in my career. I am really thankful towards our college and placement cell, for supporting and providing us opportunities to learn interview skills, communication skills and guiding us in placements and this helped me to secure my placement in Sobha Constructions LLC. The department and the placement staff was very supportive and informed us with enough notice regarding every placement drive. My professors were hard working, highly motivated and they gave us enough practical knowledge by bringing us to the real time construction projects happening in the various sites. I am very much grateful to my parents for choosing SKCET. I would highly recommend this college to anyone looking for a comprehensive and supportive educational experience. Thanks to our Management, Principal and the entire SKCET family.

**KAPIL E - CIVIL,
SOBHA CONSTRUCTIONS
LLC**



PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

I'm thrilled to express my sincere gratitude to the dedicated placement team and SKCET for providing me with the incredible opportunity to land a position at a prestigious software company offering a highly competitive 11 LPA package at Applied Materials. Throughout my academic journey, the placement team offered invaluable guidance and support. Their workshops on resume building, mock interviews, and aptitude tests significantly boosted my confidence and equipped me with the skills necessary to excel in the interview process. Their constant encouragement and personalized feedback played a crucial role in helping me ace the interviews.

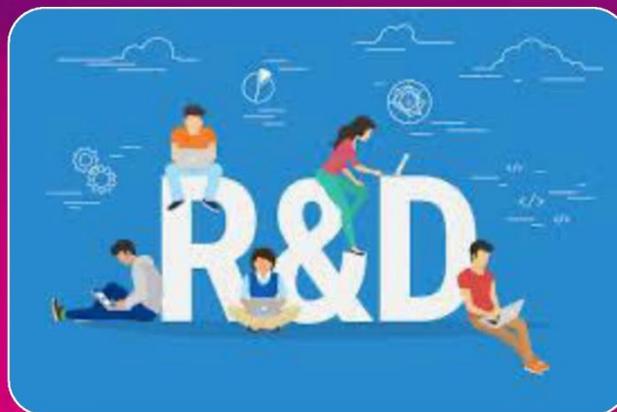
The strong foundation I received through the exceptional education offered by SKCET allowed me to showcase my technical knowledge and problem-solving abilities effectively. I'm incredibly grateful for the professors who went above and beyond to ensure our success. This placement marks a significant milestone in my career path, and I couldn't have achieved it without the unwavering support of SKCET and the placement team.

KABILAN RS
EEE (2024 BATCH)
Applied Materials-11 LPA





RESEARCH AND DEVELOPMENT



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R&D | INTERNATIONAL PATENT PUBLICATION | EEE



Mrs.G.Mahalakshmi, Assistant Professor, **EEE** Department has published a patent in the UK Patent Journal titled **“Biometric Finger Device”** and certified for Grant identified by Publication no: 6355654 on 16-04-2024.

R&D | JOURNAL PUBLICATION | CIVIL

Dr. P. Saravanakumar, Professor and Head, Department of **Civil Engineering** has published a research article titled **“Smart waste management system using WSN for enhanced circular economy of the smart city”** in Journal of Environmental Protection and Ecology.

SMART WASTE MANAGEMENT SYSTEM USING WSN FOR ENHANCED CIRCULAR ECONOMY OF THE SMART CITY

Journal: [Journal of Environmental Protection and Ecology, 25\(7\), 2024](#) Pages: 430 - 439

▼ Authors

[BANSOD, PREMENDRA JANARDAN](#) ; [VISWANATH, K.](#) ; [SARAVANAKUMAR, P.](#) ; [RAJA, G.](#) ; [ANAND, R.](#) ; [GANDHEWAR, NISARG](#) ; [RAJARAM,](#)



▼ Abstract

The smart waste management system (SWMS) within the framework of a smart city highlights the combination of technical innovation with environmental sustainability in the framework of modern urban development. This innovative technology uses Wireless Sensor Networks (WSN) to restructure and optimize traditional waste management processes. The primary issue addressed by this research is the inefficiencies included in static waste collection systems, which result in difficulties such as overflowing bins, increased operational expenses, and negative environmental repercussions. To address these issues, this research proposes incorporating the artificial hummingbird optimization (AHA) technique as a dynamic and adaptive solution for optimizing waste collection routes in real time. AHA dynamically changes collection routes based on requirements such as fill levels, proximity, and previous waste generation data, provided by the effective consumption patterns of hummingbirds in the natural world. The bio-inspired optimization not only reduces the environmental impact of traditional trash treatment but also corresponds with the larger goal of developing a circular economy. The experimental results of the suggested strategy demonstrate a significant improvement in the efficiency of waste management operations. The SWMS demonstrates adaptability to the ever-changing dynamics of waste generation due to the harmonious interaction of WSN and AHA, resulting in reduced travel distances, lower fuel consumption, and an actual contribution to the sustainable evolution of smart cities. This combination of WSN and AHA not only addresses important waste management challenges but also supports the larger objective of developing resilient and sustainable urban ecosystems.

▼ Keywords

artificial hummingbird optimization; circular economy; environmental sustainability; management system; smart city; smart waste; wireless sensor networks

R&D | JOURNAL PUBLICATION | EEE

Wireless Personal Communications
https://doi.org/10.1007/s11277-024-11006-5



A Novel Approach Using Transfer Learning Architectural Models Based Deep Learning Techniques for Identification and Classification of Malignant Skin Cancer

Balambigai Subramanian¹ · Suresh Muthusamy² · Kokilavani Thangaraj³ · Hitesh Panchal⁴ · Elavarasi Kasirajan¹ · Abarna Marimuthu¹ · Abinaya Ravi¹

Accepted: 20 March 2024
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Abstract

Melanoma, a form of skin cancer originating in melanocyte cells, poses a significant health risk, although it is less prevalent than other types of skin cancer. Its detection presents challenges, even under expert observation. To enhance the classification accuracy of skin lesions, a Deep Convolutional Neural Network, Visual Geometry Group model has been proposed. However, deep learning methods typically require substantial training time. To mitigate this, transfer learning techniques are employed, reducing training duration. Data sets sourced from the International Skin Imaging Collaboration are utilized to train the model within this proposed approach. Evaluation of classification performance involves metrics such as Accuracy, Positive Predictive Value, Negative Predictive Value, Specificity, and Sensitivity. The classifier's performance on test data is depicted through a confusion matrix. The introduction of transfer learning techniques into the Deep Convolutional Neural Network has resulted in an improved classification accuracy of 85%, compared to the 81% achieved by a standard Convolutional Neural Network.

Keywords Melanoma · Deep learning · Transfer learning · VGG-16 · Convolutional neural network · Google colab · ISIC dataset · Classification · Accuracy

1 Introduction

Cancer begins when healthy cells begin to alter and grow out of control, causing a tumor. A tumor might be malignant or noncancerous. A malignant tumor is one that has the potential to develop and spread to other regions of the body. A dermatologist is a physician who specializes in skin disorders and illnesses. As a result, skin cancer is liable for but 1% of all cancer deaths. Melanoma also can be formed within the eyes and even sometimes inside the body like within the nose or throat. The danger of melanoma seems to be increasing in people under 40, especially women. Asymmetry (A), border irregularity (B), color variability (C), diameter 3 more than 6 mm or around 14 inch (D), and evolution (E) [1] or any significant change will be used to distinguish this skin cancer from a benign skin lesion. The cancer is only present in the outermost layer of skin at stage zero. Cancer can

Extended author information available on the last page of the article

Published online: 22 April 2024



Dr.T.Kokilavani, Associate Professor, EEE Department has published a paper entitled "A Novel Approach Using Transfer Learning Architectural Models Based Deep Learning Techniques for Identification and Classification of Malignant Skin Cancer" in Wireless Personal Communications, Springer. It is SCI indexed journal with an impact factor of 2.017.

R&D | BOOK CHAPTER PUBLICATION | CSBS

Mr.I.Anantraj, Assistant Professor, Department of Computer Science and Engineering (Cyber Security) and Dr.G.Ignisha Rajathi, Associate Professor, Department of Computer Science and Business Systems have published the first chapter of "Unveiling the hidden horizons: Exploring the vistas of biomedical and medical imaging" from Futuristic Trends in Artificial Intelligence, IIP Series, Volume 3, Book 4, Part 3.

Futuristic Trends in Artificial Intelligence
e-ISBN: 978-93-6252-750-9

IIP Series, Volume 3, Book 4, Part 3, Chapter 1

UNVEILING THE HIDDEN HORIZONS:

EXPLORING THE VISTAS OF BIOMEDICAL AND MEDICAL IMAGING

UNVEILING THE HIDDEN HORIZONS: EXPLORING THE VISTAS OF BIOMEDICAL AND MEDICAL IMAGING

Abstract

This book chapter delves into the wide-ranging applications of biomedical and medical imaging, showcasing the significant advancements in this field. Biomedical and medical imaging techniques have revolutionized healthcare by providing non-invasive methods to visualize internal structures and processes in the human body. This chapter provides a comprehensive overview of various imaging modalities, including ultrasonography, positron emission tomography (PET), magnetic resonance imaging (MRI), computed tomography (CT), and X-ray.

Chapter begins by exploring the fundamental principles behind each imaging technique, elucidating the underlying physics and signal acquisition mechanisms. It then delves into the practical applications of these techniques in different medical domains. Topics covered include the use of X-ray imaging for bone fractures and dental applications, CT scanning for identifying tumors and internal injuries, MRI for detailed anatomical imaging and functional assessments, PET for cancer detection and molecular imaging, and ultrasound for obstetric imaging and cardiovascular evaluations.

Furthermore, the chapter sheds light on emerging imaging technologies and their potential impact on healthcare. It discusses combining machine learning and artificial intelligence algorithms with imaging data, enabling automated analysis, disease diagnosis, and treatment planning. Moreover, it highlights the advancements in molecular imaging and nanotechnology, paving the way for targeted therapies and personalized medicine.

Authors

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R&D | JOURNAL PUBLICATION | ECE

ieeexplore.ieee.org/document/10395712

Conferences > 2023 International Conference

Design and Implementation of Mechanical Ventilator for Respiratory

Publisher: IEEE [Cite This](#) [PDF](#)

M. Karpagam, Shivan K, Shobika S, Vismarath E, All Authors

4 Full Text Views

Abstract: Patients with respiratory diseases experience shortness of breath and a severe drop in blood oxygen levels. Unfortunately, improper handling can lead to death. Hence, there is a growing demand for medical respirators across the globe. In order to represent the lung status of normal breathing and mechanical ventilation, the mechanical ventilation model favors a stronger positive evolution. In the intensive care unit, patients who cannot breathe are usually spontaneously ventilated using a pressure- and volume- controlled mechanical ventilation system. The purpose of this article is to generate and reproduce a PCV signal. First, let's take a closer look at these two ventilation methods. The second step is to analyze the proposed Simulink model. This model uses existing procedures from the Simscape Fluids (gsl) library to reproduce all the pneumatic components used in some commercial intensive care ventilators. To validate the Simulink model, the simulated results of two forms of pressure, tidal volume, and respiratory/inspiratory flow were compared with actual quantitative trends obtained from previously recorded real-world tests. In addition, doctors and students will be able to use it to evaluate how the ventilator responds to different patients.

Document Sections:

- I. Introduction
- II. Literature Survey
- III. Existing System
- IV. Proposed System
- V. Implementation
- VI. Result and Discussion

Authors: Published in: 2023 International Conference on System, Computation, Automation and Networking (ICSCAN)

Figures: Date of Conference: 17-18 November 2023 DOI: 10.1109/ICSCAN65655.2023.10395712

References: Date Added to IEEE Xplore: 28 January 2024 Publisher: IEEE

ieeexplore.ieee.org/document/10394917

Conferences > 2023 International Conference

Machine Learning Model Based System Design For Music Recommendation

Publisher: IEEE [Cite This](#) [PDF](#)

Karthik V, Suresh E, Uma H, Vairajee R, All Authors

2 Full Text Views

Abstract: Based on the quality of the music that has been heard before, music recommendation systems can forecast the user's preferences and then present the most suitable songs to them. One of the popular methods of creating a music recommendation system. Content based approach make recommendations based on how closely two songs' contents or other characteristics match. Digital music is now widely available compared to earlier times because of commercial music streaming services that may be accessed through mobile devices. It takes a long time to sort through all of this digital music and it makes you feel overwhelmed by information. Consequently, it is a highly helpful and automated search through music archives and propose appropriate songs to consumers. This study focuses on content-based music recommendation systems.

Document Sections:

- I. Introduction
- II. Literature Survey
- III. Proposed System
- IV. Result
- V. Conclusion

Authors: Published in: 2023 International Conference on System, Computation, Automation and Networking (ICSCAN)

Figures: Date of Conference: 17-18 November 2023 DOI: 10.1109/ICSCAN65655.2023.10394917

References: Date Added to IEEE Xplore: 28 January 2024 Publisher: IEEE

ieeexplore.ieee.org/document/10395536

Conferences > 2023 International Conference

Multiple Disease Predictions using Machine Learning and Deep Learning Algorithms

Publisher: IEEE [Cite This](#) [PDF](#)

Anish Fathima S, Vismar E, Sathish S, Sri Venma S, All Authors

3 Full Text Views

Abstract: In today's industry and synthetic brain plays an necessary position today. The era evolved from self-driving automobiles to space exploration. The healthcare or medical prediction gain quantities of affected person information that can be processed in a range of time. Therefore, we use cutting-edge deep learning technology of disease prediction models that seek out multiple diseases simultaneously. They consist of machine can widely predict a disease at one time with the accuracy. Poor accuracy can damage patient health. One of the diseases are presently being investigated is a common heart issue, a heart failure, a lung issue and diabetes with the specialty of data they extract from the heart. The research has to be a sequence of wireless systems and the proper techniques, whether or not the individual has the internet net. The effort may wait to gain many humans at a cost; patient from to display their fitness and take steps to enhance their survival.

Document Sections:

- I. Introduction
- II. Literature Survey
- III. Proposed System
- IV. Algorithm Implementation
- V. Conclusion
- VI. Result and Discussion

Authors: Published in: 2023 International Conference on System, Computation, Automation and Networking (ICSCAN)

Figures: Date of Conference: 17-18 November 2023 DOI: 10.1109/ICSCAN65655.2023.10395536

References: Date Added to IEEE Xplore: 28 January 2024 Publisher: IEEE

ieeexplore.ieee.org/document/10395877

Conferences > 2023 International Conference

Resource Allocation Algorithm for Web Based Hospital Appointment Management System

Publisher: IEEE [Cite This](#) [PDF](#)

Visvesvaran C, Sri Yachini R, Shobika T, Sreedha K, All Authors

2 Full Text Views

Abstract: A hospital management system is an organized and computer-based system that is utilized and programmed for dealing with the effectiveness and governance of hospital management in daily life. The programme can be used to look after patient records, diagnoses, treatments, status of illness, prescriptions, and billing in pharmacies and laboratories. They are also used to maintain patient information such as patient ID, appointment bookings and details, and a credit for prescribers/patients. A lot of hospitals are overlooking the reports in the system, but they're not available to patients. It will provide an additional capability to view the records in the database and make them easily accessible to the patients. An online appointment management approach allows the sick to register and book a consultation with their respective medical advisors. If the doctor calls off the set-up or arrangement, the sick person goes to the health centre. The main intention is to construct a system or system that can be used to an appointment with doctor can also prescriber notices so that the patient can get them directly. Also, if there is a need for a scan or test, the patient can get the test reports from the laboratory.

Document Sections:

- I. Introduction
- II. Literature Survey
- III. Methodology
- IV. Disease Description
- V. Result and Discussion

Authors: Published in: 2023 International Conference on System, Computation, Automation and Networking (ICSCAN)

Figures: Date of Conference: 17-18 November 2023 DOI: 10.1109/ICSCAN65655.2023.10395877

References: Date Added to IEEE Xplore: 28 January 2024 Publisher: IEEE

ieeexplore.ieee.org/document/10395653/authorauthors

Conferences > 2023 International Conference

Securing IoT-Based Home Automation Systems Through Blockchain Technology: Implementation

Publisher: IEEE [Cite This](#) [PDF](#)

N. Pabharval, K. Mathan, C. Sarathkumar, R. Sarathkumar, E. Rajagouth, Divyanshi S, All Authors

3 Full Text Views

Abstract: Cybersecurity is the large subject matter that connects everything, processes, units and technologies. Network safety is a set of policies and controls that are the integrity, accessibility and security of network resources, connectivity or software and hardware. Today's computer networks are continuously evolving and the security risks are increasing number of complex. Similarly, the clever domestic has emerged as a low security threat. There are a lot of ways to remain secure online. But in the vulnerability of the smart domestic devices, there are protocols that are used, such as smart, location, data, etc. Some devices may additionally be lacking from your device. The machine has been designed so that passwords can be scanned. Unencrypted passwords can be searched on the machine or in the software. The safety of the clever domestic community is pretty high. This research linked together to protect the data from gaining access to them. Access to faulty or corrupt data. Failure to do so could lead to complete device downtime, control, etc. This paper about building a mechanism to analyze specific problem or clever domestic conversation networks. This paper wants to use qualitative methods, such as interviews. A testing evaluation was once fundamental to make out this study and other qualitative words on the secondary facts and techniques used. Several research have been carried out on the security threat associated to clever domestic networks and the use of applied concepts derived from block chain technology. Robust protective measures and defend your intelligence. Secure your domestic network.

Document Sections:

- I. Introduction
- II. Literature Survey
- III. Methodology
- IV. Result and Discussion

Authors: Published in: 2023 International Conference on System, Computation, Automation and Networking (ICSCAN)

Figures: Date of Conference: 17-18 November 2023 DOI: 10.1109/ICSCAN65655.2023.10395653

References: Date Added to IEEE Xplore: 28 January 2024 Publisher: IEEE

Following faculty members of ECE department have presented their conference papers in the 2023 International Conference on System, Computation, Automation and Networking (ICSCAN) and published in IEEE Explore. It is a Scopus indexed Conference.

Name of the Faculty	Title of the Paper
Dr. M. Karpagam	Design and Implementation of Mechanical Ventilator for Respiratory
Dr. V. Karthik	Machine Learning Model Based System Design for Music Recommendation
Ms. B. Anish Fathima	Multiple Disease Predictions using Machine Learning and Deep Learning Algorithms
Mr. C. Visvesvaran	Resource Allocation Algorithm for Web Based Hospital Appointment Management System
Mr. R. Sarath Kumar	Securing IoT-Based Home Automation Systems Through Blockchain Technology: Implementation

R&D | JOURNAL PUBLICATION | MECH

J. Inst. Eng. India Ser. D
https://doi.org/10.1007/s40033-024-00735-3

ORIGINAL CONTRIBUTION

Appraisal of Mechanical and Tribological Behaviour of Polyamide 6 with Carbon Fibre-Filled Composites Fabricated Through Fused Deposition Modelling

R. Sharvesh¹ · M. Babu¹ · R. Soundararajan²

Received: 31 December 2023 / Accepted: 4 April 2024
© The Institution of Engineers (India) 2024

Abstract Fused deposition modelling (FDM) is one of the most sought-after techniques in the field of additive manufacturing for the fabrication of polymer composites. This article aims to augment the mechanical and tribological behaviour of polyamide 6 (PA6) reinforced with carbon fibre (CF) composite test samples were fabricated through the FDM process by changing the layer height considering it to be the most significant process parameter. The standard test samples were fabricated with various layer heights (0.08, 0.16, and 0.24 mm) while maintaining the other printing parameters at a fixed setting. Fabricated samples were subjected to hardness, tensile strength, impact strength, and flexural strength tests in addition to the pin-on-disc tribometer test for evaluating wear rate and coefficient of friction. During the pin-on-disc experiment, the specimens were subjected to varying applied loads of 5 N, 10 N, 15 N, and 20 N

Keywords PA6 with CF · Varying layer height · FDM · Mechanical and tribological behaviour

Introduction
Additive manufacturing, commonly referred to as FDM printing, stands out as a burgeoning technology used in the Industrial 4.0 manufacturing sector today. Additive manufacturing covers a wide range of materials including metals, plastics, thermoplastics, carbon fibre, composites, and bio composites for adopting suitable applications [1]. Additive manufacturing is used as a general term, it encompasses various techniques such as stereolithography, selective laser sintering, fused deposition modelling, direct metal deposition, electron beam manufacturing, material jetting, etc. [2, 3].

Dr.R.Soundararajan, Associate Professor, Department of **Mechanical Engineering,** has published a research article titled **“Appraisal of Mechanical and Tribological Behaviour of Polyamide6 with Carbon Fibre Filled Composites Fabricated through Fused Deposition Modelling”**, in Journal of The Institution of Engineers (India): Series D. It is indexed in Scopus.

DID YOU KNOW?



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THERE IS AN **AREA IN CANADA** WITH **GRAVITY** LESS THAN THE **REST OF THE EARTH**. THIS IS IN THE **HUDSON BAY** AREA OF **CANADA**.



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RECENT TRENDS
IN CONVERTER DESIGN FOR
E-VEHICLE AND RENEWABLE
ENERGY SYSTEM

23.04.2024
11.30 a.m

SPEAKER
Dr.P. VINOTH KUMAR
Associate Professor
Sri Krishna College of Engineering
and Technology, Coimbatore

VENUE : A - BLOCK SEMINAR HALL

INSTITUTION'S INNOVATION COUNCIL
Ministry of Education, India

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Dr. P. Vinoth Kumar, Associate Professor, EEE acted as a resource person for a seminar on “Recent Trends in Converter Design for E-Vehicle and Renewable Energy System” on 23.04.2024 organized by the Department of EEE, Dhanalakshmi Srinivasan College of Engineering, Coimbatore. The Seminar created awareness on recent trends in power converters and design of power converters with MATLAB and Multisim software.

CSBS | Ph.D VIVA VOCE

Ms.F.Margret Sharmila, Assistant Professor, Department of **Computer Science and Business Systems** has successfully completed her Ph.D Viva voce on the topic, “Utilizing Transfer Learning and Neural Network Eryption Techniques in Privacy Preserving and Securing Data” on 12.04.2024 at RVS College of Engineering and Technology, Coimbatore.



CSE | RESOURCE PERSON

**PERUNTHALAIVAR KAMARAJAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY**
A Constituent College Of Puducherry Technological University (PTU)
(Government of Puducherry), Nedungadu, Karaikal-609 603
Approved by AICTE, New Delhi.

**INSTITUTION'S
INNOVATION
COUNCIL**
(Member of IIRC Initiatives)
Organizes

"Session on Problem Solving and Ideation Workshop"
Search Algorithms and Agents in Artificial Intelligence to
Solve Real Time Problems


Resource Person
Dr. D. Rasi, Ph.D.
Professor,
Department of Computer Science and Engineering,
Sri Krishna College of Engineering and Technology, Coimbatore

President
Dr. A. Kumar,
Associate Professor,
Dept. of CSE

Co-ordinator
Dr. R. Buvaneshvari,
Head of the Department,
Dept. of CSE

Vice President
Dr. M. Aramudhan,
Principal,
PKIET

Convenor
Dr. R. Tamijetchelvi,
Head of the Department,
Dept. of ECE

Date: 16.04.2024
Time: 10.00 am to 12.00 pm
Venue: Seminar Hall

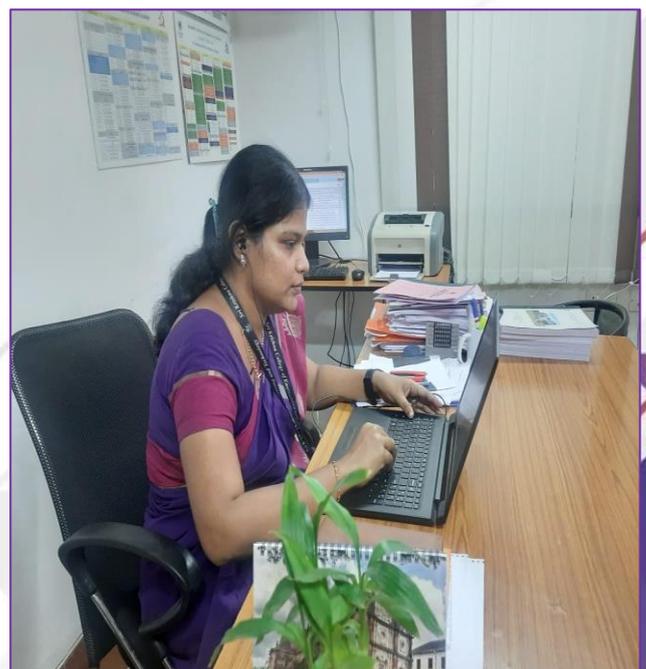
Dr. Rasi D, Professor of Computer Science and Engineering Department has been the **Resource Person** for a lecture on **"Problem Solving and Ideation Workshop search Algorithms and Agents in Artificial Intelligence to solve Real Time Problems"** at Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal held on 16.04.2024.

SKCET | CISCO - AICTE VIRTUAL INTERNSHIP PROGRAM

Dr. U. Barakkath Nisha, Program Coordinator, **M.Tech (CSE) & CSD**, attended CISCO- AICTE Virtual Internship Program on 24.4.24.

Session Highlights

- Student's registration process in AICTE portal.
- Cyber Security Internship and Networking Internship.
- Course timeline, Industry Internship and certification.





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MCT | FDP ON FRONTIERS IN MECHANICAL ENGINEERING



Dr.R.Gopinathan, Associate Professor, **Mechatronics Engineering** has participated in the Faculty Development Program (Virtual Mode) on “**Frontiers in Mechanical Engineering: Embracing Modern Trends and Innovations**” organized by the Department of Mechanical Engineering, DMI College of Engineering from 21st March 2024 – 27th March 2024.

AI&DS | MICROSOFT CERTIFICATION

Mr.G.S.Pugalendhi, Assistant Professor of **AI&DS** has successfully completed a course titled “**Train and Evaluate Deep Learning Models**” offered by Microsoft on 22.04.2024.



AI&DS | INFOSYS SPRINGBOARD CERTIFICATION



Mr.S.Senthil Kumar,
Assistant Professor of **AI&DS** has successfully completed a course titled **“Microsoft Power BI”** offered by Infosys Springboard on 09.04.2024

AI&DS | MENTORSHIP

Mr. G.S. Pugalendhi, Assistant Professor of **AI&DS**, received certificate of Appreciation for his outstanding guidance and mentorship provided to First year students during the Innovateathon held on March 21, 2024.



M.TECH CSE | INFOSYS SPRINGBOARD CERTIFICATION



Mr.Senthil J, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully completed Infosys Spring Board Certification Course entitled **“Java Tools”** on 24.04.2024.

M.TECH CSE | FDP ON DL TECHNIQUES FOR SOCIAL MEDIA ANALYTICS

Mr.Senthil J , Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully participated in the one week Faculty Development Programme titled **“Deep Learning Techniques for Social Media Analytics”** conducted by Kongu Engineering College, Perundurai in association with College of Computing and Information Sciences, University of Technology and Applied Sciences -Ibri, Oman from 15.04.2024 to 20.04.2024.



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CSE | ICONSTEM 2024



Dr. Vijaya G, Professor, CSE has actively participated and presented a research paper in **ICONSTEM 2024** titled **“Robust Technique for Detecting and Blocking of VPN Over Networks”** in the 9th IEEE Sponsored International Conference on Science, Technology, Engineering and Mathematics (ICONSTEM 2024) organized by Jeppiaar Engineering College on 4th and 5th April, 2024.

IT | CONFERENCE PRESENTATION

Ms.R.Janani, Assistant Professor, IT has presented a research paper titled **“Development of Deepfake Detection Technique for Protecting Multimedia Information Using Deep Learning”** in the 6th International Conference on Inventive Computation and Information Technologies from April 16-04-2024 to 17-04-2024 at Stamford University, Bangkok, Thailand.





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CSBS | ALUMNI INTERACTION



Mr. Parvathy Nathan S, Software Development Engineer, Quinbay Technologies, Bangalore, renowned Alumni of Batch 2018-2022 Batch addressed the First year **CSBS CSD** and **CSY** on 12.04.2024 on the current trends of the IT world towards placements drawing from his own experiences as both a student at SKCET and a professional in the field, shared his valuable insights and guidance with the students.



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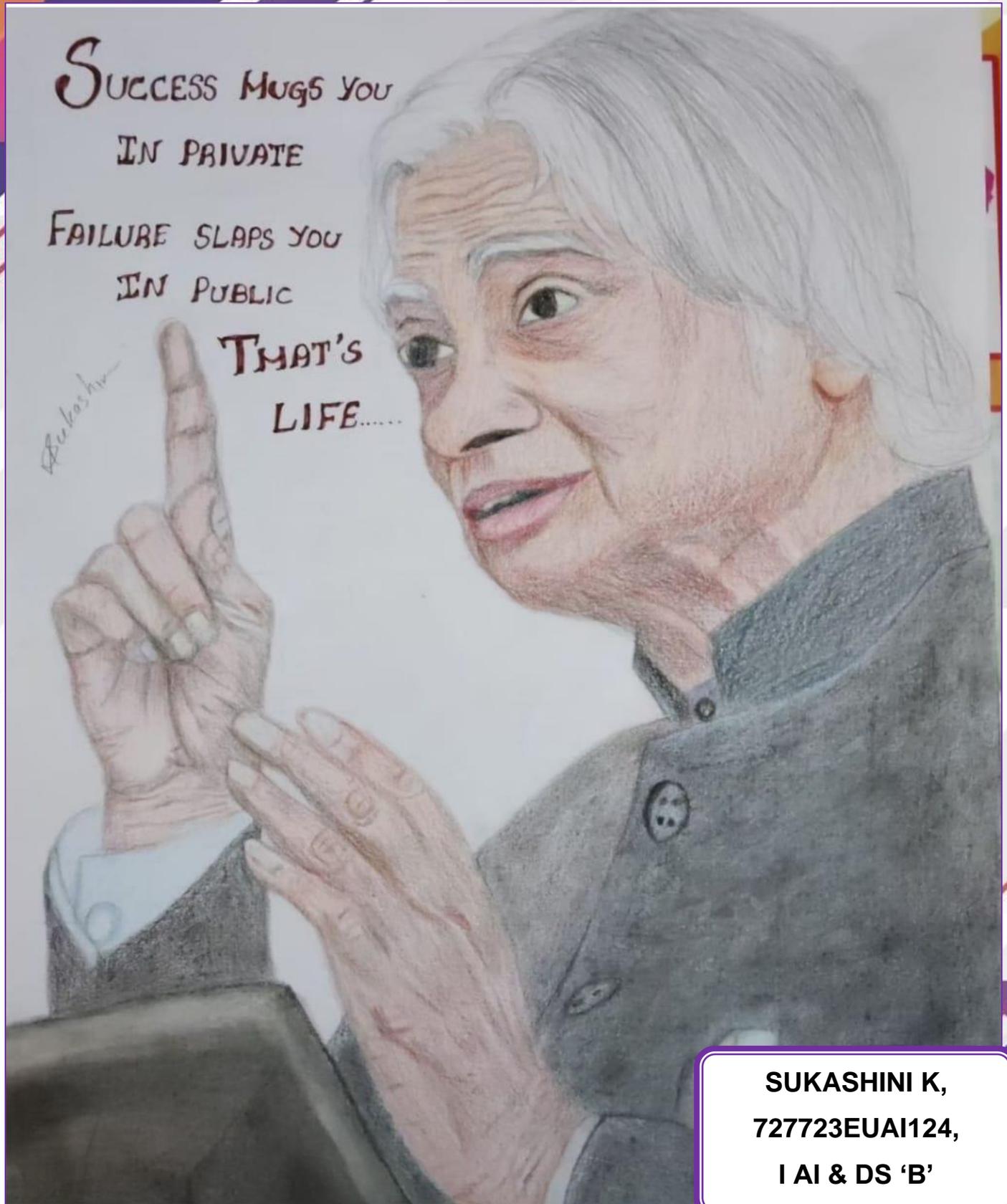


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**SUKASHINI K,
727723EUAI124,
I AI & DS 'B'**

IT | CREATIVE CORNER



Swathi.T
IITD

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WORLD BOOK DAY

World Book Day, also known as World Book and Copyright Day or International Day of the Book, is an annual event organized by UNESCO

On this occasion, people around the world come together to celebrate the joy of reading and the significance of books.

These literary giants have left an indelible mark on the world of literature, and their works continue to inspire readers across generations. In addition to promoting reading, World Book Day also highlights the importance of copyright protection.

So, whether you're diving into a classic novel, exploring a new genre, or sharing stories with loved ones, take a moment to appreciate the magic of books on this special day!

"Reading is dreaming with your eyes open"



Pritika K R
I ECE C

We lose ourselves in books, we find ourselves there too.

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Swathi.T
I I T D

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**SHIBANI SHREE S,
727723EUA118,
I AI & DS 'B'.**

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Department of Mechatronics Engineering

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on



GLOBAL TRENDS IN ROBOTICS

29

April, 2024

Resource Person:

Dr. Rammohan S

Associate Professor,
Department of Mechanical Engineering,
Amrita School of Engineering,
Coimbatore.



BS 03



3:00 to 4:30 pm

