SRI KRISHNA INSTITUTIONS COIMBATORE

SUSTAINABLE DEVELOPMENT GOALS

SKCT supports the Sustainable Development Goals

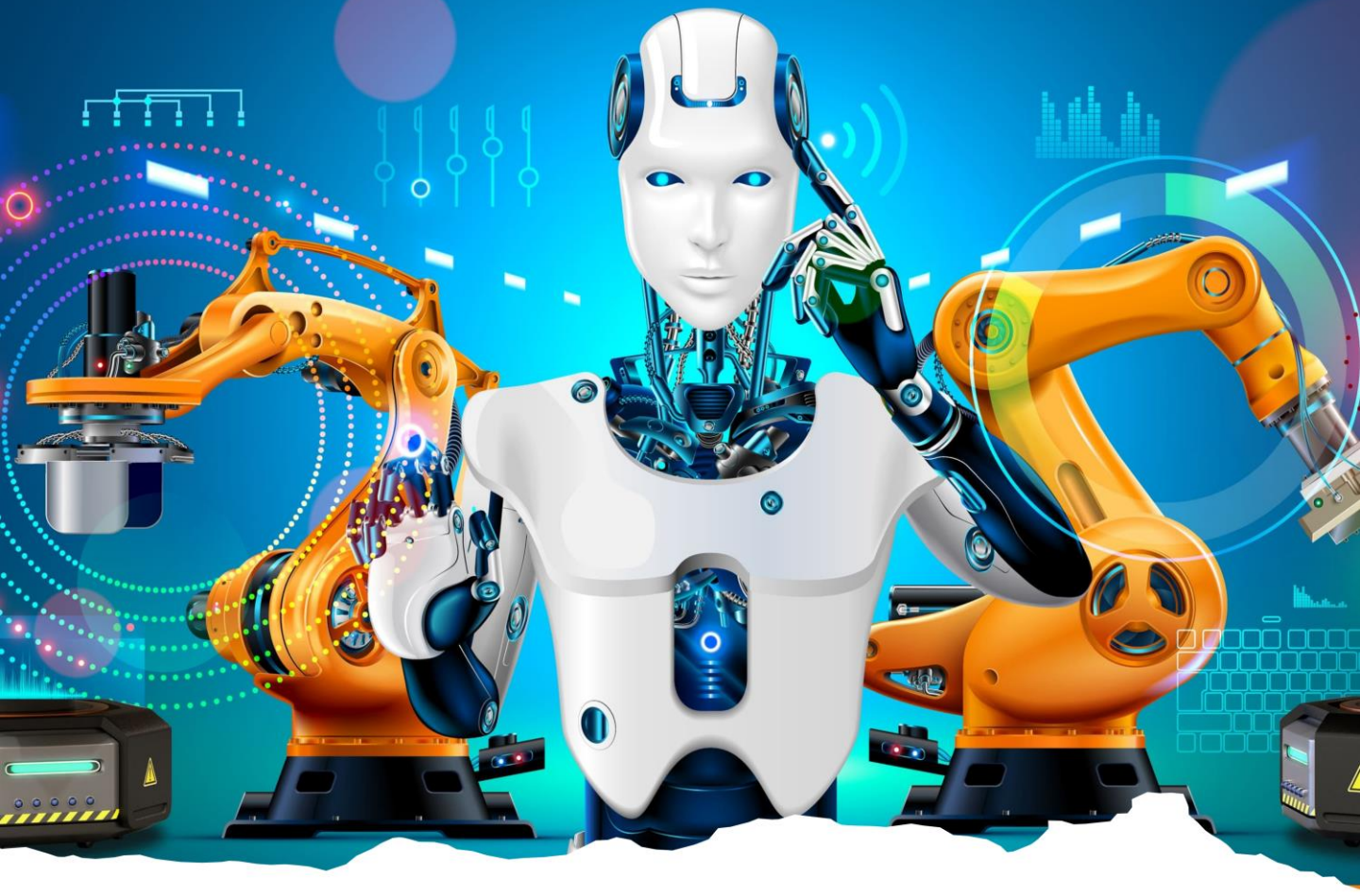
Sri Krishna College of Technology

An Autonomous Institution
Affiliated to Anna University and Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR CAMPUS, COIMBATORE - 641 042.

VOL 24 - ISSUE 14
09 - 21 SEP 2024

SKCT DIGEST

THE PRIDE OF OUR REFLECTION



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Engineering is the closest thing to magic that exists in the world - Elon Musk

Contact Us

0422-2984567 - 68
Kovaipudur,
Coimbatore - 641 042.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Placement

The Students of Final B.Tech. ADS received an offer from "**Mu Sigma"** Bangalore with a package of 8 LPA.

Sneha R S
727821TUAD048
Batch 2021-25/ADS

Kiran kumar R
727821TUAD026
Batch 2021-25/ADS

Sairam N
727821TUAD040
Batch 2021-25/ADS

for getting placement offer with

Mu Sigma

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Placement

Mr Aathithiya D, Student of Final B.Tech. ADS received an offer from **"Mindsprint"** Bangalore / Chennai with a package of 5.2 LPA.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Achievement

Ms Srinithi V, Student of Third B.Tech. ADS completed the certification course on **"Power BI Job Simulation"** on 18 September 2024.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Achievement

Ms Birundha M S, Student of Second B.Tech. ADS completed the certification course on **"Object Oriented Programming using Python"** on 16 September 2024.


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

BIRUNDHA M S

for successfully completing the course

Object Oriented Programming using Python

on September 16, 2024

Infosys | Springboard

Congratulations! You make us proud!

Issued on: Monday, September 16, 2024
To verify, scan the QR code at https://verify.onwingspan.com

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

CSE (CYBER SECURITY)

Students' Participation


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Thiru murugan

for successfully completing the course

Java OOPs Concepts

on September 3, 2024

Infosys | Springboard

Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Thursday, September 5, 2024
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Mr Thiru Murugan, Student of Second B.E. CSE (CyS), completed an online Course on **"JAVA OOPs Concept"** offered through Infosys Springboard.

Ms Dharshana S, Student of Second B.E. CSE (CyS), completed an online Course on **"JAVA Certified Foundations Associate"** offered through Infosys Springboard.


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

DHARSHANA S

for successfully completing the course

Java Certified Foundations Associate: Classes & Constructors

on September 12, 2024

Infosys | Springboard

Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Friday, September 13, 2024
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CSE (CYBER SECURITY)

Student Participation

Mr Hariharan S, Student of Second B.E. CSE (CyS), completed a online course on **"Ethical Hacking 101"** offered through Simplilearn and **"Learning ReactJS"** offered through Infosys Springboard.

CSE (CYBER SECURITY)

Student Participation

Ms Akshara A S, Student of Second B.E. CSE (CyS), completed a 15-day internship in the field of Cyber Security offered by GOZLER Tech. Pvt. Ltd., Bangalore during 13-28 August 2024 .

CSE (INTERNET OF THINGS)

Student Participation

Ms Gomathi G, Student of Third B.E. CSE (IoT), participated in the **"TATA Crucible Campus Quiz 2024"** organised by the Tata Group .

CSE (CYBER SECURITY)

Student Participation

Mr Deepak B, Student of Second B.E. CSE (CyS),achieved the "**21 Day Milestone"** in the NxtCode Challenge conducted by CCBP 4.0 Academy Students.

CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

Student Achievement

Mr. Aaghash M, Third B.E. CSE, AML, and **Ms. Apoorva J,** Third B.E. CSE, IoT, completed 200 problems each on LeetCode.

Mr. Sanjey G M, Third B.E. CSE, AML, completed 150 problems.

Mr. Vinod Hariharan R, Third B.E. CSE, IoT, completed 100 problems.

Aaghash M
727822TUAM001
B.E. CSE (AML) | Batch 2022-26
for completing
200
Problems in
LeetCode

Apoorva J
Batch 2022-26/ B.E. CSE (IoT)
for completing
200
Problems in
LeetCode

Sanjey G M
727822TUAM048
B.E. CSE (AML) | Batch 2022-26
for completing
150
Problems in
LeetCode

Vinod Hariharan R
Batch 2022-26/ B.E. CSE (IoT)
for completing
100
Problems in
LeetCode

LeetCode

CIVIL ENGINEERING

Student Participation

Mr Sanjaykumar S, Student of Second B.E. Civil Engineering, attended an International Indo-UK Workshop on **"Emerging Innovations in Sustainable Construction Materials (E-SCM 2024)"** sponsored by MHRD-SPARC, organised at BITS Pilani Hyderabad Campus during 13-14 September 2024.

CIVIL ENGINEERING

Faculty Participation

The following Members of Faculty completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on **"Biodegradability and Environmental Impact Assessment of Biofibres and Green Composites** during 19-24 August 2024:

1. Dr N Shanmugasundaram, AP/Civil
2. Mr G Jayakumar, AP/Civil
3. Mr Manoj K M, AP/Civil

ATAL/2024/1723862048

Skill India

ALL INDIA CO

Nelson M

AICTE

It is certified that Mr. JAYA KUMAR G, Faculty has successfully participated & completed AICT environmental impact assessment of biofibre

V S SREENIVASAN
Associate Professor Level
(AICTE Institute), Coordinator
SRI KRISHNA COLLEGE
OF TECHNOLOGY

ATAL/2024/1723816307

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Dr. Shanmugasundaram N, Faculty members of the AICTE approved institutions of Sri Krishna College of Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Biodegradability and environmental impact assessment of biofibres and green composites at SRI KRISHNA COLLEGE OF TECHNOLOGY from 19/08/2024 to 24/08/2024.

V S SREENIVASAN
Associate Professor Level
(AICTE Institute), Coordinator
SRI KRISHNA COLLEGE
OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau,
AICTE

CIVIL ENGINEERING

Faculty Participation

Dr P Subashree, Assoc. Professor, completed One-week FDP on **"Coastal Engineering: Comprehensive Insights for Onsite Solutions"** organised by Dr D Y Patil Institute of Technology, Pune during 02-06 September 2024.

DPU

Dr. D. Y. Patil Institute of Technology Pimpri Pune-18
Department of Civil Engineering
&
Central Water and Power Research Station (CWPRS), Pune

CERTIFICATE OF PARTICIPATION

Dr. SUBASHREE P

For participating in one week national level Faculty Development Programme on
"Coastal Engineering: Comprehensive Insights for Onsite Solutions"
Organized by
Department of Civil Engineering at Dr. D. Y. Patil Institute of Technology Pimpri, Pune-18.
In association with
Central Water and Power Research Station (CWPRS), Pune From 2nd to 6th September, 2024

Dr. J. D. Agrawal	Dr.Deepa A. Joshi	Dr R. S. Kankara	Dr.Lalit kumar Wadhwa
Professor,Civil Engineering	Prof. & HoD,Civil Engineering	Director,CWPRS Pune	Principal

CIVIL ENGINEERING

Faculty Participation

Dr V Sathish Kumar, Assoc. Professor, attended a webinar on **"Engineering Tomorrow: Preparing for the Present and Future of Infrastructure Development"** organised by Dr N G P Institute of Technology, Coimbatore.

CIVIL ENGINEERING

Student Achievement

Mr C Yokeshwaran, Student of Final B.E. Civil Engineering, received the "**Thiru S V Subramaniam Memorial Award 2024"** along with a Cash Prize from Dr K Indra Devi, IEI Corporate Member and hosted by the **Institution of Engineers (India), Coimbatore Local Centre.**

COMPUTER SCIENCE AND ENGINEERING

Faculty Achievement

Dr R Gnanakumari, Asst. Professor, completed the following courses offered through Coursera on 19 September 2024

- Introduction to Generative AI
- Introduction to Responsible AI
- Introduction to Large Language Models

COMPUTER SCIENCE AND ENGINEERING

Students' Achievement

Sri Krishna College of Technology
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ENGINEERS' DAY CELEBRATION 2024
Birth Anniversary of Sir Mokshagundam Visvesvaraya (1860 - 1962)

MERIT CERTIFICATE

This is to certify that
SHANMUHA PRIYA T.
II CSE
has participated in the event SCIENCE FACTS - QUIZ
and secured III Position in the Engineer's Day Celebration conducted by Sri Krishna College of Technology, Coimbatore on 18th September, 2024.

Dr. P. Prathap, Convenor, Engineers' Day Celebration 2024
Dr. G. Sulthitha, Principal, Sri Krishna College of Technology

Ms T Shanmuhapriya, Student of Second B.E. CSE, secured the **"Third Position"** in a Quiz Competition on Engineers Day Celebration.

Ms T Shanmuhapriya, Student of Second B.E. CSE, completed **"Big Data 201 Course"** offered through Infosys Springboard.

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to
SHANMUHAPRIYA T
for successfully completing the course
Big Data - 201
on September 19, 2024

Infosys | Springboard
Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
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Infosys Limited

Issued on: Friday, September 20, 2024
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COMPUTER SCIENCE AND ENGINEERING

Student Achievement

Ms K Sugena Munavara, Student of Second B.E. CSE completed **"Advanced Tech Workshop Series' 24 | Level 2"** organised at IIT Madras during 14-15 September 2024.

Ms K Sugena Munavara, Student of Second B.E. CSE completed online internship on **"Web Development"** offered by Prodigy Info Techard.

COMPUTER SCIENCE AND ENGINEERING

Student Achievement

Ms T Shanumapriya, Student of Second B.E. CSE, completed the following courses offered through Coursera:

1. Advanced Angular Development
2. Artificial Intelligence Privacy and Convenience
3. Advanced Angular Topics
4. Advanced Techniques for Implementing Security Services

COMPUTER SCIENCE AND ENGINEERING

Student Achievement

Ms Shalini, Student of Second B.E. CSE, planted a sapling as a part of **"AICTE Activity"** at Gudiyatham, Vellore.

COMPUTER SCIENCE AND ENGINEERING

Faculty Achievements

Ms P Divya, Asst. Professor, completed a course on **"Introduction to MongoDB"** offered through Infosys Springboard.

Ms Gomathy A, Asst. Professor, completed a course on **"Introduction to Cyber Security"** offered through Infosys Springboard.

COMPUTER SCIENCE AND ENGINEERING

Student Participation

Ms Thilagavathi, Student of Third B.E. CSE, completed a One-month Internship on **"Data Science"** offered through Nextlogic and completed a course on **"Techniques for Big Data Analytics"** offered through Infosys Springboard.


Nxtlogic
SOFTWARE SOLUTIONS

CERTIFICATE
OF MERIT

This is to certify Mr/Ms. Thilagavathi K Reg No. 727822TUCS249 that Third year BE - CSE student from "Sri Krishna College of Technology", Coimbatore has successfully completed his/her internship training entitled as Data Science from 30.06.2024 to 20.07.2024 in our esteemed organization.

Nxtlogic Certified for Internship Certificate

For Nxtlogic Software Solutions


Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Thilagavathi k

for successfully completing the course

Techniques for Big Data Analytics

on August 20, 2024

Infosys | Springboard

Congratulations! You make us proud!

Issued on: Tuesday, August 27, 2024
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Executive Vice President and Global Head
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Infosys Limited

COMPUTER SCIENCE AND ENGINEERING

Student Participation

Ms Sriharini R, Student of Second B.E. CSE, Completed the Advanced Techo Workshop Series 24 - Level 2 on **"Mastering Generative AI"** at Indian Institute of Technology, Madras organised by Techobytes Technologies and Chemplus 24 and completed One-month Internship on **"Web Development"** at Prodigy Infotech.

COMPUTER SCIENCE AND ENGINEERING

Placement

Mr Rishi Sundar C, Student of Final B.E., CSE, received a placement offer from **"MUSIGMA"** with a package of **5 LPA.**

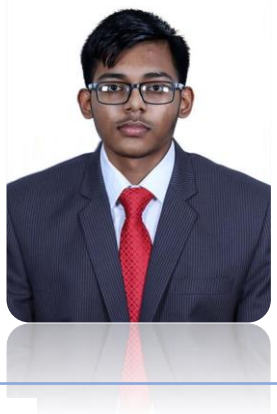
Ms SHREENA CHRISTOPHER, Student of Final B.E., CSE, received a placement offer from **"GEP"** with a package of **3.5 LPA.**

ELECTRONICS AND COMMUNICATION ENGINEERING

Placement

Mr Karthikeyan P, Mr Rithick R and **Mr Sachin B**, Students of Final B.E. ECE, received a placement offer from "**Procyon.**".





Procyon

ELECTRONICS AND COMMUNICATION ENGINEERING

Placement

Ms Yoga R, Student of Final B.E. ECE. received a placement offer from "**Musigma.**"

Ms Yoga R, Student of Final B.E. ECE, received a placement offer from "**GEP.**"

ELECTRONICS AND COMMUNICATION ENGINEERING

Student Achivement

Mr Sushanth S, Student of Third B.E. ECE, has been selected for an internship at **Daloft Aerospace, Chennai**.

Sushanth S
727822TUEC236
Batch 2022-26/ECE

for getting Internship offer with

DALOFT Aerospace

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Publication

Dr M G Sumithra, Principal and Professor/ECE, published a research article on **"SwinDFU-Net: Deep Learning Transformer Network for Infection Identification in Diabetic Foot Ulcer"** in the journal of Technology and Health Care, Vol. Pre-press No. Pre-press, pp. 1-18, 2024.

SwinDFU-Net: Deep learning transformer network for infection identification in diabetic foot ulcer Cite

Article type: Research Article

Authors: M.G, Sumithra | Venkatesan, Chandran*

Affiliations: Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, India

Correspondence: [*] Corresponding author: Chandran Venkatesan, Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, India. E-mail: chandranv76@gmail.com.

Abstract: BACKGROUND: The identification of infection in diabetic foot ulcers (DFUs) is challenging due to variability within classes, visual similarity between classes, reduced contrast with healthy skin, and presence of artifacts. Existing studies focus on visual characteristics and tissue classification rather than infection detection, critical for assessing DFUs and predicting amputation risk. OBJECTIVE: To address these challenges, this study proposes a deep learning model using a hybrid CNN and Swin Transformer architecture for infection classification in DFU images. The aim is to leverage end-to-end mapping without prior knowledge, integrating local and global feature extraction to improve detection accuracy. METHODS: The proposed model utilizes a hybrid CNN and Swin Transformer architecture. It employs the Grad CAM technique to visualize the decision-making process of the CNN and Transformer blocks. The DFUC Challenge dataset is used for training and evaluation, emphasizing the model's ability to accurately classify DFU images into infected and non-infected categories. RESULTS: The model achieves high performance metrics: sensitivity (95.98%), specificity (97.08%), accuracy (96.52%), and Matthews Correlation Coefficient (0.93). These results indicate the model's effectiveness in quickly diagnosing DFU infections, highlighting its potential as a valuable tool for medical professionals. CONCLUSION: The hybrid CNN and Swin Transformer architecture effectively combines strengths from both models, enabling accurate classification of DFU images as infected or non-infected, even in complex scenarios. The use of Grad CAM provides insights into the model's decision process, aiding in identifying infected regions within DFU images. This approach shows promise for enhancing clinical assessment and management of DFU infections.

Keywords: Diabetic foot ulcer, infection classification, convolutional neural network, Swin Transformer, Grad CAM

DOI: 10.3233/THC-241444

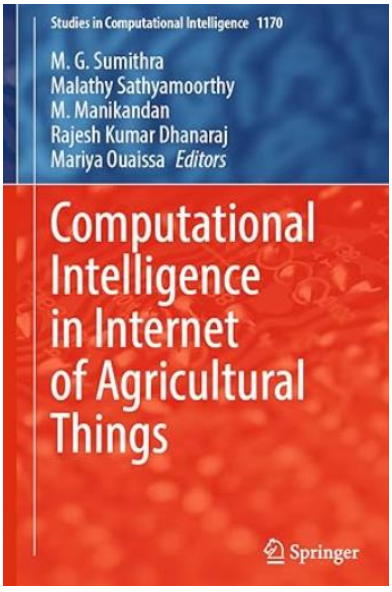
Journal: Technology and Health Care, vol. Pre-press, no. Pre-press, pp. 1-18, 2024

Received 22 June 2024 | **Accepted** 1 August 2024 | **Published:** 29 August 2024

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Publication

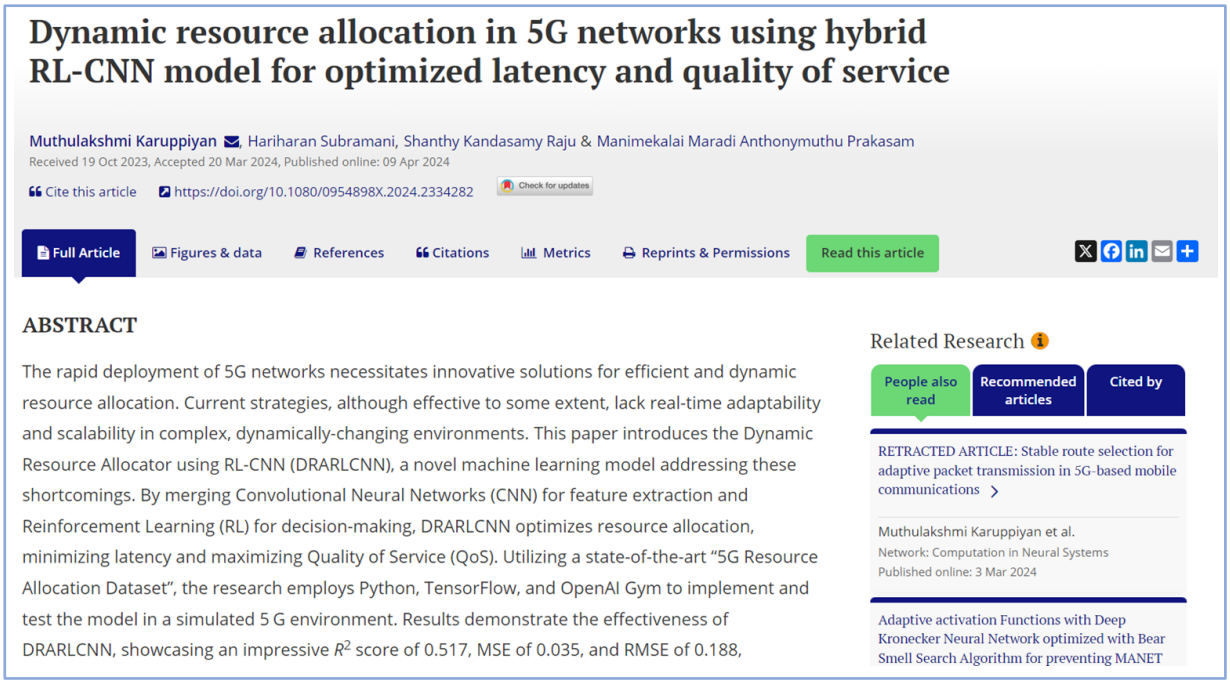
Dr M G Sumithra, Principal and Professor of ECE, published a book titled **Computational Intelligence in Internet of Agricultural Things,** which explores the integration of IoT, AI, and machine learning for data-driven solutions in agriculture. The book highlights key technologies, smart farming techniques, challenges, and case studies aimed at improving resource efficiency and addressing global food supply challenges.



ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Publication

Dr K Muthulakshmi, Professor, published a research article on **"Dynamic Resource allocation in 5G Networks using Hybrid RL-CNN Model for Optimized Latency and Quality of Service"** in the journal of Network: Computation in Neural Systems in Taylor & Francis, indexed in WoS.



Dynamic resource allocation in 5G networks using hybrid RL-CNN model for optimized latency and quality of service

Muthulakshmi Karuppiyan, Hariharan Subramani, Shanthy Kandasamy Raju & Manimekalai Maradi Anthonymuthu Prakasam

Received 19 Oct 2023, Accepted 20 Mar 2024, Published online: 09 Apr 2024

Cite this article https://doi.org/10.1080/0954898X.2024.2334282 Check for updates

Full Article | Figures & data | References | Citations | Metrics | Reprints & Permissions | Read this article

ABSTRACT

The rapid deployment of 5G networks necessitates innovative solutions for efficient and dynamic resource allocation. Current strategies, although effective to some extent, lack real-time adaptability and scalability in complex, dynamically-changing environments. This paper introduces the Dynamic Resource Allocator using RL-CNN (DRARLCNN), a novel machine learning model addressing these shortcomings. By merging Convolutional Neural Networks (CNN) for feature extraction and Reinforcement Learning (RL) for decision-making, DRARLCNN optimizes resource allocation, minimizing latency and maximizing Quality of Service (QoS). Utilizing a state-of-the-art "5G Resource Allocation Dataset", the research employs Python, TensorFlow, and OpenAI Gym to implement and test the model in a simulated 5 G environment. Results demonstrate the effectiveness of DRARLCNN, showcasing an impressive R^2 score of 0.517, MSE of 0.035, and RMSE of 0.188,

Related Research

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RETRACTED ARTICLE: Stable route selection for adaptive packet transmission in 5G-based mobile communications

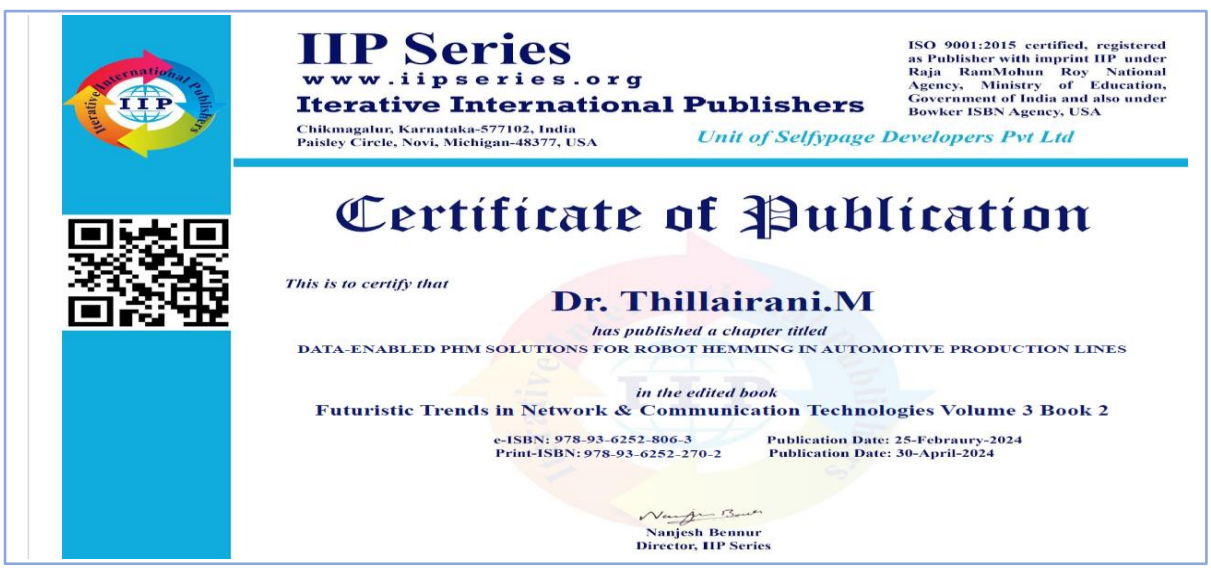
Muthulakshmi Karuppiyan et al.
Network: Computation in Neural Systems
Published online: 3 Mar 2024

Adaptive activation Functions with Deep Kronecker Neural Network optimized with Bear Smell Search Algorithm for preventing MANET

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Publication

Dr M Thillai Rani, Assoc. Professor, published a book chapter on **"Data-enabled Phm Solutions for Robot Hemming In Automotive Production Lines"** in the edited book - Futuristic Trends in Network & Communication Technologies Volume 3 Book 2, Iterative International Publishers, USA.



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Unit of Selfypage Developers Pvt Ltd

Certificate of Publication

This is to certify that

Dr. Thillairani.M

has published a chapter titled

DATA-ENABLED PHM SOLUTIONS FOR ROBOT HEMMING IN AUTOMOTIVE PRODUCTION LINES

in the edited book

Futuristic Trends in Network & Communication Technologies Volume 3 Book 2

e-ISBN: 978-93-6252-806-3 Publication Date: 25-Febraury-2024
Print-ISBN: 978-93-6252-270-2 Publication Date: 30-April-2024

Nanjesh Bennur
Director, IIP Series

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Online Certification

Dr K Muthulakshmi, Professor, completed the courses on **"Deep Learning with PyTorch : Image Segmentation"** and **"Web Scraping with Python"** through Coursera.

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Online Certifications

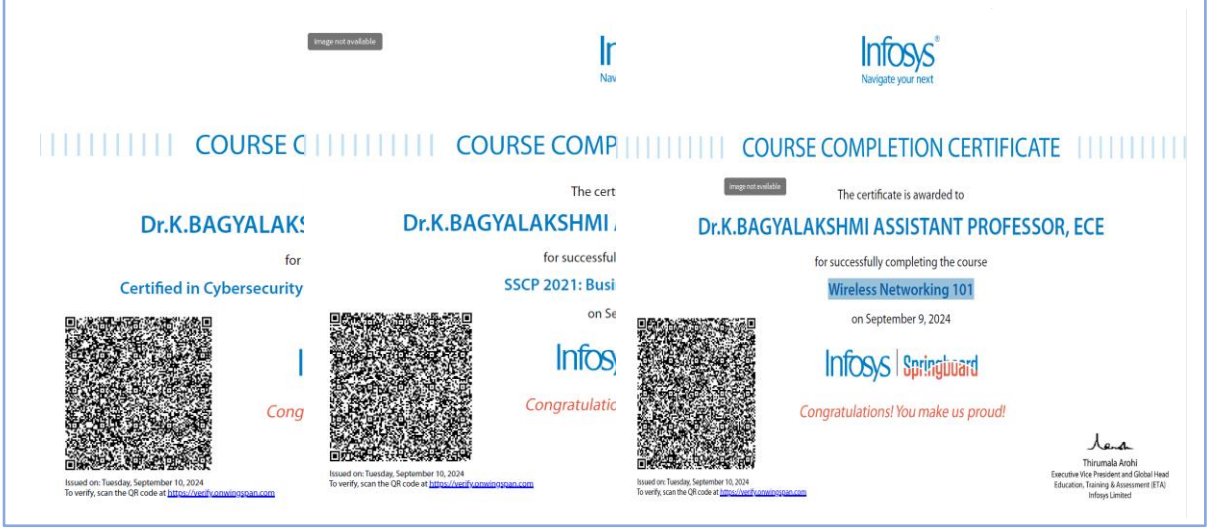
Dr M Thillai Rani, Assoc. Professor, completed the course on **"Introduction to Generative AI"** offered by Google Cloud through Coursera.

Dr Tamil Nidhi Marimuthu, Asst. Professor, completed a course on **"Generative AI: Elevate Your Data Science Career"** offered by IBM through Coursera.

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Online Certification

Dr K Bagyalakshmi, Asst. Professor, completed the Infosys Springboard Courses on **"Certified in Cybersecurity (CC): Security Best Practices & Security Awareness, Business Continuity Planning, Wireless Networking."**



ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Online Certification

Mr M Arun Kumar, Asst. Professor, completed the Infosys Springboard Courses on "**Certified in Cybersecurity (CC): Security Best Practices & Security Awareness and Data Security & System Hardening.**"

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

ARUN KUMAR MUNUSAMY

for successfully completing the course

Certified in Cybersecurity (CC): Security Best Practices & Security Awareness

on September 6, 2024

Infosys | Springboard

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Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
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Issued on: Saturday, September 7, 2024
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

ARUN KUMAR MUNUSAMY ASSISTANT PROFESSOR IN ECE DEPARTMENT

for successfully completing the course

in Cybersecurity (CC): Data Security & System Hardening

on September 14, 2024

Infosys | Springboard

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Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Sunday, September 15, 2024
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ELECTRONICS AND COMMUNICATION ENGINEERING

Event Organised

On behalf of the Engineer's Day celebration, an event on "**Marketing a Product**" was conducted in the Linear and Digital Integrated Circuits Lab on 18 September 2024. Students from various departments actively participated, showcasing their enthusiasm and marketing skills.

Jury's for the Event: Dr K P Suresh, Asst. Professor, Department of EEE and **Dr C Senthilkumar,** Assoc. Professor, Department of ECE.

Event Coordinators: Dr C Senthilkumar, Assoc. Professor, Department of ECE and **Mr M Arunkumar**, Asst. Professor, Department of ECE.

ELECTRONICS AND COMMUNICATION ENGINEERING

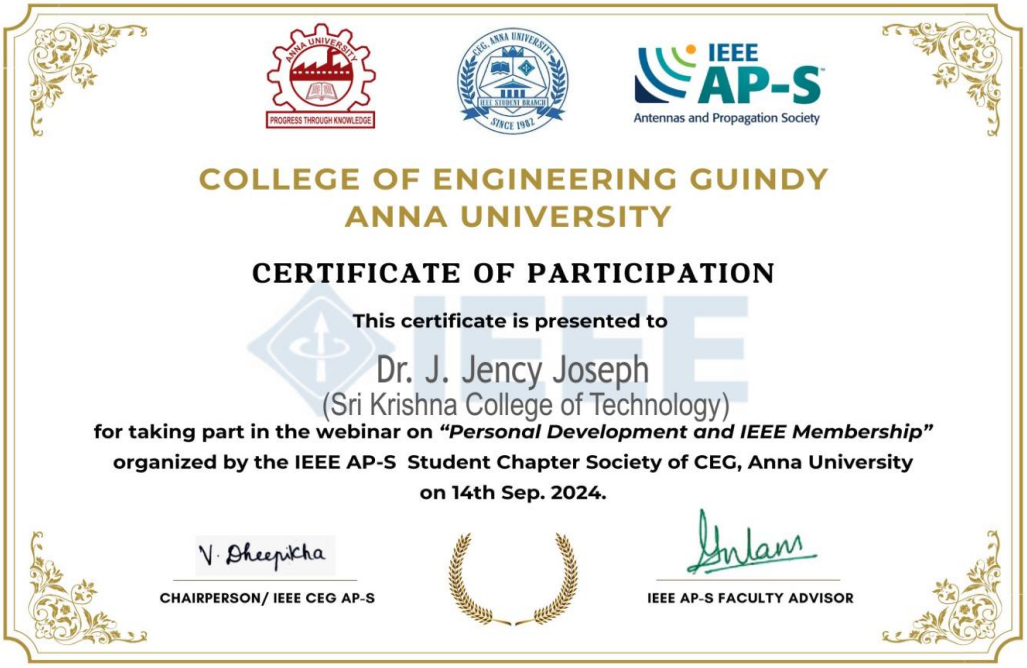
Event Organised

The Department of Electronics and Communication Engineering organised a **"Slow learners Counseling for Improving Academic Performance"** on 19 September 2024. **Ms B Boomika**, Asst. Professor, Department of Psychology, Sri Krishna Aditya College of Arts & Sciences, Coimbatore, served as the resource person for this counseling session

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Participation

Dr Jency Joseph J, the Member of Faculty, attended a webinar on "**Personal Development and IEEE Membership**" organised by IEEE AP-S, Student chapter society of CEG, Anna University on 14 September 2024.



COLLEGE OF ENGINEERING GUINDY
ANNA UNIVERSITY

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Dr. J. Jency Joseph
(Sri Krishna College of Technology)

for taking part in the webinar on *"Personal Development and IEEE Membership"*
organized by the IEEE AP-S Student Chapter Society of CEG, Anna University
on 14th Sep. 2024.

V. Dheepikha
CHAIRPERSON/ IEEE CEG AP-S

IEEE AP-S FACULTY ADVISOR

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Participation

Mr Bharaniprakash T, the Member of Faculty, attended the "**Teacher's Day Conclave**" at CII Office, Elysium Central, Coimbatore on 20 September 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Achievement

Dr Jaisiva S, Asst. Professor, received the "**Reviewer Certificate**" from Springer Nature for his contributions in reviewing articles.

ELECTRICAL AND ELECTRONICS ENGINEERING

Student Participation

Mr Harish S, Student of Third B.E. EEE, secured the Second Place in "**Science Facts Quiz**" conducted by Sri Krishna College of Technology, Coimbatore on 18 September 2024.

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KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

ENGINEERS' DAY CELEBRATION 2024

Birth Anniversary of
Sir Mokshagundam Visvesvaraya
(1860 - 1962)

MERIT CERTIFICATE

This is to certify that

HARISH S.

III EEE

has participated in the event SCIENCE & FACTS - QUIZ and secured II Position in the Engineer's Day Celebration conducted by Sri Krishna College of Technology, Coimbatore on 18th September, 2024.

Dr. P. Prathap 19/9/2024
Convenor
Engineers' Day Celebration 2024

Dr. M. G. Sumithra
Principal
Sri Krishna College of Technology

ELECTRICAL AND ELECTRONICS ENGINEERING

Student Participation

Mr Hariprasad J, Student of Second B.E. EEE, secured the Third Place in "**Speech Competition**" conducted by Sri Krishna College of Technology, Coimbatore on 18 September 2024.

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An Autonomous Institution
Affiliated to Anna University | Approved by AICTE
KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

ENGINEERS' DAY CELEBRATION 2024

Birth Anniversary of
Sir Mokshagundam Visvesvaraya
(1860 - 1962)

MERIT CERTIFICATE

This is to certify that
HARIPRASAD J
II EEE
has participated in the event SPEECH COMPETITION
and secured III Position in the Engineer's Day Celebration conducted by Sri Krishna College of Technology, Coimbatore on 18th September, 2024.

Dr. P. Prathap 19/9/2024
Convenor
Engineers' Day Celebration 2024

Dr. M. G. Sumithra
Principal
Sri Krishna College of Technology

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Participation

Mr Nitish J and **Ms Muthubharathi M**, Students of Second B.E. EEE participated in **"Altruisty Coding Challenge"**, conducted by Altruisty, Chennai on 18 September 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Participation

Ms Praveena P and **Ms Vavuniya S**, Students of First B.E. EEE participated in an IEEE Training on **"IEEE Xplore"**, conducted by EBSCO Information Services, India on 17 September 2024.


EBSCO
Information Services
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CERTIFICATE OF PARTICIPATION

This is to certify that

P.Praveena

has participated in an IEEE Training on

"IEEE Xplore"

Nanda Lal T S	9/17/2024	Rajendra Kumar
Training Manager EBSCO Information Services, India	Date	Head - Training Services EBSCO Information Services, India

This is a computer generated certificate no signature/seal required.


EBSCO
Information Services
IEEE Authorized Dealer

ICATE OF PARTICIPATION

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s.vavuniya

has participated in an IEEE Training on

"IEEE Xplore"

Nanda Lal T S	9/17/2024	Rajendra Kumar
Training Manager EBSCO Information Services, India	Date	Head - Training Services EBSCO Information Services, India

This is a computer generated certificate no signature/seal required.

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Participation

Ms Haripriya N and **Ms Mahalakshmy S**, Students of First B.E. EEE attended a webinar on **"AI and the Future of Healthcare"** conducted by REC, Chennai on 16 September 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Certification

Mr Bharath R, **Ms Haripriya, Ms Deepika S J** and **Ms Mahalakshmy S,** Students of First B.E. EEE, attended a webinar on "**Personal Development and IEEE Membership**" organised by IEEE AP-S, Student Chapter Society of CEG, Anna University on 14 September 2024.


COLLEGE OF ENGINEERING GUINDY
ANNA UNIVERSITY
CERTIFICATE OF PARTICIPATION
This certificate is presented to
MAHALAKSHMY S
(SRI KRISHNA COLLEGE OF TECHNOLOGY)
for taking part in the webinar on "Personal Development and IEEE Membership"
organized by the IEEE AP-S Student Chapter Society of CEG, Anna University
on 14th Sep. 2024.
CHAIRPERSON/ IEEE CEG AP-S
IEEE AP-S FACULTY ADVISOR


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ANNA UNIVERSITY
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(Sri Krishna College of Technology)
for taking part in the webinar on "Personal Development and IEEE Membership"
organized by the IEEE AP-S Student Chapter Society of CEG, Anna University
on 14th Sep. 2024.
CHAIRPERSON/ IEEE CEG AP-S
IEEE AP-S FACULTY ADVISOR


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CERTIFICATE OF PARTICIPATION
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Haripriya
(Sri Krishna College of technology)
for taking part in the webinar on "Personal Development and IEEE Membership"
organized by the IEEE AP-S Student Chapter Society of CEG, Anna University
on 14th Sep. 2024.
CHAIRPERSON/ IEEE CEG AP-S
IEEE AP-S FACULTY ADVISOR


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ANNA UNIVERSITY
CERTIFICATE OF PARTICIPATION
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BHARATH.R
(SRI KRISHNA COLLEGE OF TECHNOLOGY)
for taking part in the webinar on "Personal Development and IEEE Membership"
organized by the IEEE AP-S Student Chapter Society of CEG, Anna University
on 14th Sep. 2024.
CHAIRPERSON/ IEEE CEG AP-S
IEEE AP-S FACULTY ADVISOR

ELECTRICAL AND ELECTRONICS ENGINEERING

Student Certification

Ms Muthubharathi M, Student of Second B.E. EEE, completed various online courses through Microsoft learnathon platform. The following are the courses:

- Fundamentals of Responsible Generative AI
- Get started with Azure OpenAI Services
- Fundamentals of Generative AI
- Explore generative AI with Copilot in Bing
- Implement Retrieval Augmented Generation(RAG) with Azure OpenAI Service

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Certification

The Students of Second and Third B.E. EEE completed various online courses through Microsoft learnathon platform. The following are the courses:

- Fundamental of Generative AI
- Explore generative AI with Copilot in Bing
- Get Started with Azure OpenAI service
- Fundamental of Responsible Generative AI
- Build Natural solutions with Azure OpenAI Service
- Apply Prompt Engineering with Azure OpenAI Service
- Fundamental of Azure AI Services
- Introduction to Azure Cloud Shell.

INFORMATION TECHNOLOGY

Faculty Participation

Ms Dhivya P, Asst. Professor, completed 5-day Faculty Development Programme on **"Building Web Development Solutions with Cloud Computing under the Next Gen Employability Programme"** during 27-31 August 2024.

INFORMATION TECHNOLOGY

Placement

The Students of Final B.Tech. IT are placed in **“Musigma.”**

Ms Kathyayini

Ms M Sabarirupa

Mu Sigma

INFORMATION TECHNOLOGY

Placement

The Students of Final B.Tech. IT are placed in **"Mindsprint."**

Ms Hemalathaa K

Mr Harish kumar A V

Mr Gowtham S

Mindsprint

INFORMATION TECHNOLOGY

Students' Participation

The Students of Second and Third B.Tech. IT participated in a competition on **"Dr Kalam Young Achiever Award"** conducted at Akshaya Engineering College and Technology on 20 September 2024.

Batch 1 Ms Aalisha Ms Dharshini Ms DonaJaprin Ms Harini sri	**Batch3** Ms Iniya sree B Mr Arun T Ms Janani S Mr Akash V
Batch2 Ms Aiswarya V Mr Hemanth LE Ms Dharshana C Ms Akshaya R	**Batch4** Mr Dhanin A Mr Harikanth SS Mr Sasikiran M Mr Naveen Raj

INFORMATION TECHNOLOGY

Students' Participation

The Students of Second and Third B.Tech. IT participated in a competition on "**Dr Kalam Young Achiever Award**" conducted at Akshaya Engineering College and Technology on 20 September 2024.

INFORMATION TECHNOLOGY

Students' Participation

Ms Sridharshika S and Ms K Sukitha, Students of Second B.Tech. IT participated in a 2-day workshop on **"Advanced Techno Workshop Series 24"** organised in association with IIT Madras during 14-15 September 2024.


Certificate Id: TB-CHEMPLUS24-TWS-L2-GENAI-011

CERTIFICATE
OF PARTICIPATION

This Certificate is proudly presented to

SRIDHARSHIKA S

for taking part in 2 Days "ADVANCED TECHO WORKSHOP SERIES'24 | LEVEL 2" by Techobytes Technologies in collaboration with Chemplus'24, Ches IIT Madras.

Workshop Technology Name : MASTERING: GENERATIVE AI
Workshop Dates: 14th - 15th SEPTEMBER 2024
Venue: IIT Madras

Chemplus'24 Ches IIT Madras | Manager Techobytes Technologies | Director Techobytes Technologies

Certificate Id: TB-CHEMPLUS24-TWS-L2-GENAI-011

CERTIFICATE
OF PARTICIPATION

This Certificate is proudly presented to

SRIDHARSHIKA S

for taking part in 2 Days "ADVANCED TECHO WORKSHOP SERIES'24 | LEVEL 2" by Techobytes Technologies in collaboration with Chemplus'24, Ches IIT Madras.

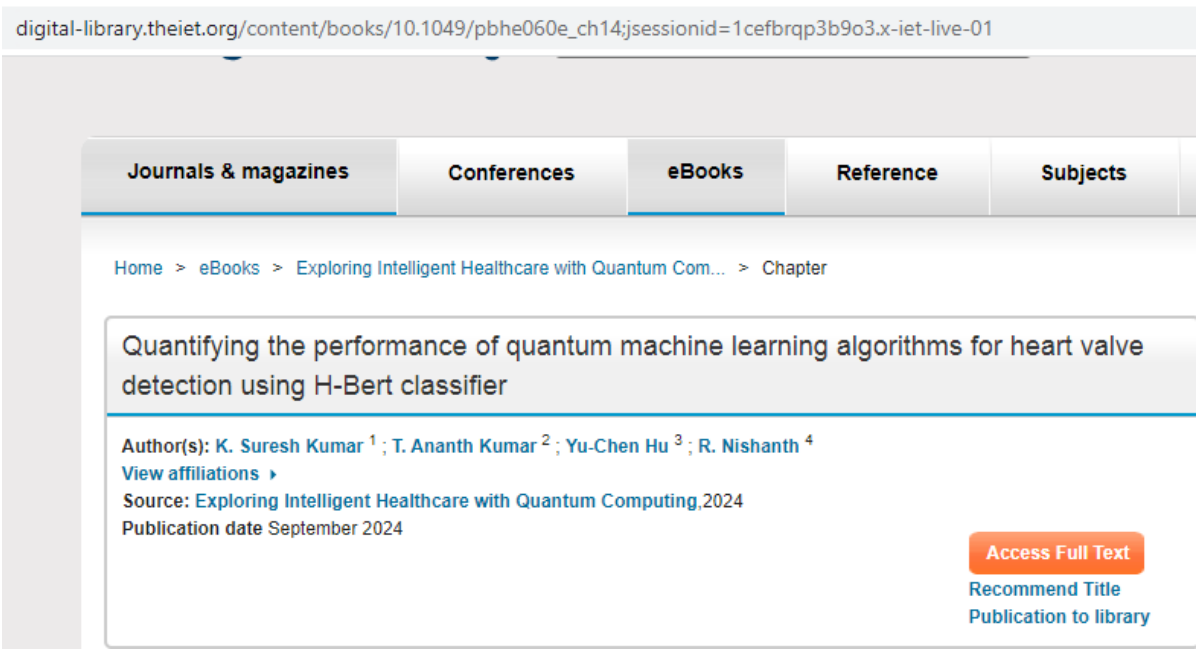
Workshop Technology Name : MASTERING: GENERATIVE AI
Workshop Dates: 14th - 15th SEPTEMBER 2024
Venue: IIT Madras

Chemplus'24 Ches IIT Madras | Manager Techobytes Technologies | Director Techobytes Technologies

INFORMATION TECHNOLOGY

Faculty Publication

Dr K Suresh Kumar, Asst. Professor, published a **Scopus Indexed** Book chapter on **"Quantifying the Performance of Quantum Machine Learning Algorithms for Heart Valve Detection using H-Bert Classifier."**



INFORMATION TECHNOLOGY

Faculty Publication

Mr C Rajesh Kumar, Asst. Professor, published in a SCI Journal on **"Biomedical Signal Processing and Control"** in the journal of Q1 journal published

UTO-LAB model:

USRP based touchless lung anomaly detection model with optimized machine learning classifier.

Contents lists available at ScienceDirect

Biomedical Signal Processing and Control

journal homepage: www.elsevier.com/locate/bspc

UTO-LAB model: USRP based touchless lung anomaly detection model with optimized machine learning classifier

C. Rajeshkumar, K. Ruba Soundar, R. Muthuselvi, R. Raja Kumar

ARTICLE INFO

ABSTRACT

1. Introduction

Respiratory disorders have a important effect on general health, and prompt recognition of anomalies in the lungs is essential for appropriate medical intervention [1]. Healthcare systems around the world are faced with significant challenges from lung ailments like pneumonia, COVID-19 [2], and lung cancer. Breathing rate (BR) becomes significantly more important than other details like blood pressure after general anesthesia [3]. The average number of breaths taken per minute by an individual during rest is usually varies based on health conditions. Hyperventilation (bpm > 24) in adults with normal breathing rates might be classified as hyperventilation (bpm 10), and apnea might be classified as hyperventilation in adults with normal breathing rates (bpm 10–24) [4]. For COVID-19 instances, monitoring an individual's breathing rates and activities is essential while unusual respiration values may indicate a deterioration in the individual's health condition [5]. ... rate be used to determine the BR; however, this appr... and error-prone [6]. Unpredictable breathing can be ... of medical conditions like metabolic disorders or fat... monary conditions might be indicated by shallow, ... Inhalation. Eupnea, bradypnea, and other aberrant ... hyperpnea, sighing, air-trapping, Cheyne-Stokes, Ku... Ataxic [7,8]. The in-depth explanation of those ... displayed in Table 1.

During a pandemic, non-contact monitoring is cru... control the spread of infectious ailment. Recent ... healthcare imaging [9]. Field Programmable Gat... [10,11], artificial intelligence (AI) [12], and touchl... created exciting possibilities to improve the precision ... of lung abnormalities identification. To classify breath...

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1746-8094/© 2024 Elsevier Ltd. All rights are reserved, including those for text and data mining, AI training, and similar technologies.

MECHANICAL ENGINEERING

Faculty Publication

Dr R B Jeen Robert, Professor, published an article on **"Transformative Applications of Additive Manufacturing in Biomedical Engineering: Bioprinting to Surgical Innovations"** in a Journal of Medical Engineering & Technology (Q2 Journal) with an Cite Score 4.6 Taylor & Francis, Scopus indexed.

JOURNAL OF MEDICAL ENGINEERING & TECHNOLOGY
https://doi.org/10.1080/03091902.2024.2399017
Taylor & Francis
Taylor & Francis Group
REVIEW ARTICLE
Check for updates

Transformative applications of additive manufacturing in biomedical engineering: bioprinting to surgical innovations

Senthil Maharaj Kennedy[a], Amudhan K[b], Jerold John Britto J[c], Ezhilmaran V[d] and Jeen Robert RB[e]

[a]Department of Mechanical Engineering, AAA College of Engineering and Technology, Sivakasi, India; [b]Department of Mechanical Engineering, Mepco Schlenk Engineering College, Sivakasi, India; [c]Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam, India; [d]Department of Manufacturing Engineering, Anna University, Chennai, India; [e]Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore, India

ABSTRACT

This paper delves into the diverse applications and transformative impact of additive manufacturing (AM) in biomedical engineering. A detailed analysis of various AM technologies showcases their distinct capabilities and specific applications within the medical field. Special emphasis is placed on bioprinting of organs and tissues, a revolutionary area where AM has the potential to revolutionize organ transplantation and regenerative medicine by fabricating functional tissues and organs. The review further explores the customization of implants and prosthetics, demonstrating how tailored medical devices enhance patient comfort and performance. Additionally, the utility of AM in surgical planning is examined, highlighting how printed models contribute to increased surgical precision, reduced operating times, and minimized complications. The discussion extends to the 3D printing of surgical instruments, showcasing how these bespoke tools can improve surgical outcomes. Moreover, the integration of AM in drug delivery systems, including the development of innovative drug-loaded implants, underscores its potential to enhance therapeutic efficacy and reduce side effects. It also addresses personalized prosthetic implants, regulatory frameworks, biocompatibility concerns, and the future potential of AM in global health and sustainable practices.

ARTICLE HISTORY
Received 4 September 2023
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Accepted 24 August 2024

KEYWORDS
Additive manufacturing; bio printing; surgical instruments; implants; 3D printing

1. Introduction

Additive Manufacturing, also known as 3D printing, is a revolutionary manufacturing process that builds objects layer by layer, adding material one cross-sectional slice at a time. It differs from traditional subtractive manufacturing methods in which material is removed from a solid block. The process of additive manufacturing begins with a 3D digital model of the object, which is then sliced into thin horizontal layers. The printer deposits material layer by layer, fusing or solidifying each one to create the final 3D object. Fused Deposition Modelling (FDM), Stereolithography (SLA), Selective Laser Sintering (SLS), and other technologies and techniques are included in AM [1]. Every technology has its own set of capabilities and applications. For instance, Fused Deposition Modelling (FDM), while accessible and widely used, typically employs thermoplastics like PLA, which is biocompatible but exhibits moderate mechanical strength and is prone to anisotropy. In contrast, Stereolithography (SLA) allows for high-resolution parts with smooth finishes using photopolymers, some of which are biocompatible, though they may be brittle. Selective Laser Sintering (SLS) and Direct Metal Laser Sintering (DMLS) stand out for their use of biocompatible materials such as Nylon and titanium, respectively, offering superior mechanical properties and isotropy, making them ideal for load-bearing implants and complex medical devices. Bioprinting, while more focused on creating living tissues, uses bioinks that prioritise biocompatibility, though the mechanical properties of bioprinted structures are often less robust compared to other AM methods [2–4]. This adaptability allows it to be used in a wide range of industries, including aerospace, automotive, healthcare, and art. One of the most significant advantages of additive manufacturing is the ability to create highly customised and complex geometries. This is

CONTACT Senthil Maharaj Kennedy maharaj@aaacet.ac.in Department of Mechanical Engineering, AAA College of Engineering and Technology, Sivakasi 626005, Tamil Nadu, India.

MECHANICAL ENGINEERING

Research

Dr P Prathap, Dr F Paul Gregory, Dr T Nithyanandhan and **Mr K Senthil Kumar,** the Members of Faculty, attended and received "**Atal FDP Certificates"** at an event organised by Sri Krishna College of Technology, Coimbatore.


ATAL/2024/1723914703

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Certificate

It is certified that Dr. PRATHAP P, Professor of Sri Krishna College of Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Biodegradability and environmental impact assessment of biofibres and green composites at SRI KRISHNA COLLEGE OF TECHNOLOGY from 19/08/2024 to 24/08/2024.

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Associate Professor Level (AICTE Institute), Coordinator
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Director & Bureau Head
Training and Learning Bureau, AICTE


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AICTE Training and Learning (ATAL) Academy

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It is certified that Mr. Senthil Kumar K, Assistant Professor of Sri Krishna College of Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Biodegradability and environmental impact assessment of biofibres and green composites at SRI KRISHNA COLLEGE OF TECHNOLOGY from 19/08/2024 to 24/08/2024.

V S SREENIVASAN
Associate Professor Level (AICTE Institute), Coordinator
SRI KRISHNA COLLEGE OF TECHNOLOGY

Dr. Sunil Luthra
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Training and Learning Bureau, AICTE


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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
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Certificate

It is certified that Dr. Paul Gregory, Faculty members of the AICTE approved institutions of Sri Krishna College of Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Biodegradability and environmental impact assessment of biofibres and green composites at SRI KRISHNA COLLEGE OF TECHNOLOGY from 19/08/2024 to 24/08/2024.

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Associate Professor Level (AICTE Institute), Coordinator
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Dr. Sunil Luthra
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Training and Learning Bureau, AICTE


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Certificate

It is certified that Dr. Nithyanandhan, Assistant Professor of Sri Krishna College of technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Biodegradability and environmental impact assessment of biofibres and green composites at SRI KRISHNA COLLEGE OF TECHNOLOGY from 19/08/2024 to 24/08/2024.

V S SREENIVASAN
Associate Professor Level (AICTE Institute), Coordinator
SRI KRISHNA COLLEGE OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

MECHANICAL ENGINEERING

Research

Sri Krishna College of Technology celebrated “Engineers Day” with students showcasing projects, ideas and conducted Quizzes.

MECHANICAL ENGINEERING

Research

Department of Mechanical Engineering conducted Academic Review Meeting on 21.09.2024 for II, Ill & IV students along with their respective parents. Academic Toppers was felicitated during the meeting in the presence of their parents, tutors, year coordinators and HOD


Felicitating Mr. Lingeshwaraa M - First Rank with CGPA 9.38


Felicitating Mr. Lokeshwaran V - Second Rank with CGPA 9.21


Counselling/Discussion with parents by III Year Tutor

SCIENCE AND HUMANITIES

Faculty Publication

Dr R Ganesh, Asst. Professor, published a paper in **"Journal of Advances in Biology & Biotechnology."**

Certificate No: PRJABB122934R G

Journal of Advances in Biology & Biotechnology

Certificate of Excellence in Reviewing

awarded to

Dr. R Ganesh

India

in recognition of an outstanding contribution to the quality of the journal.

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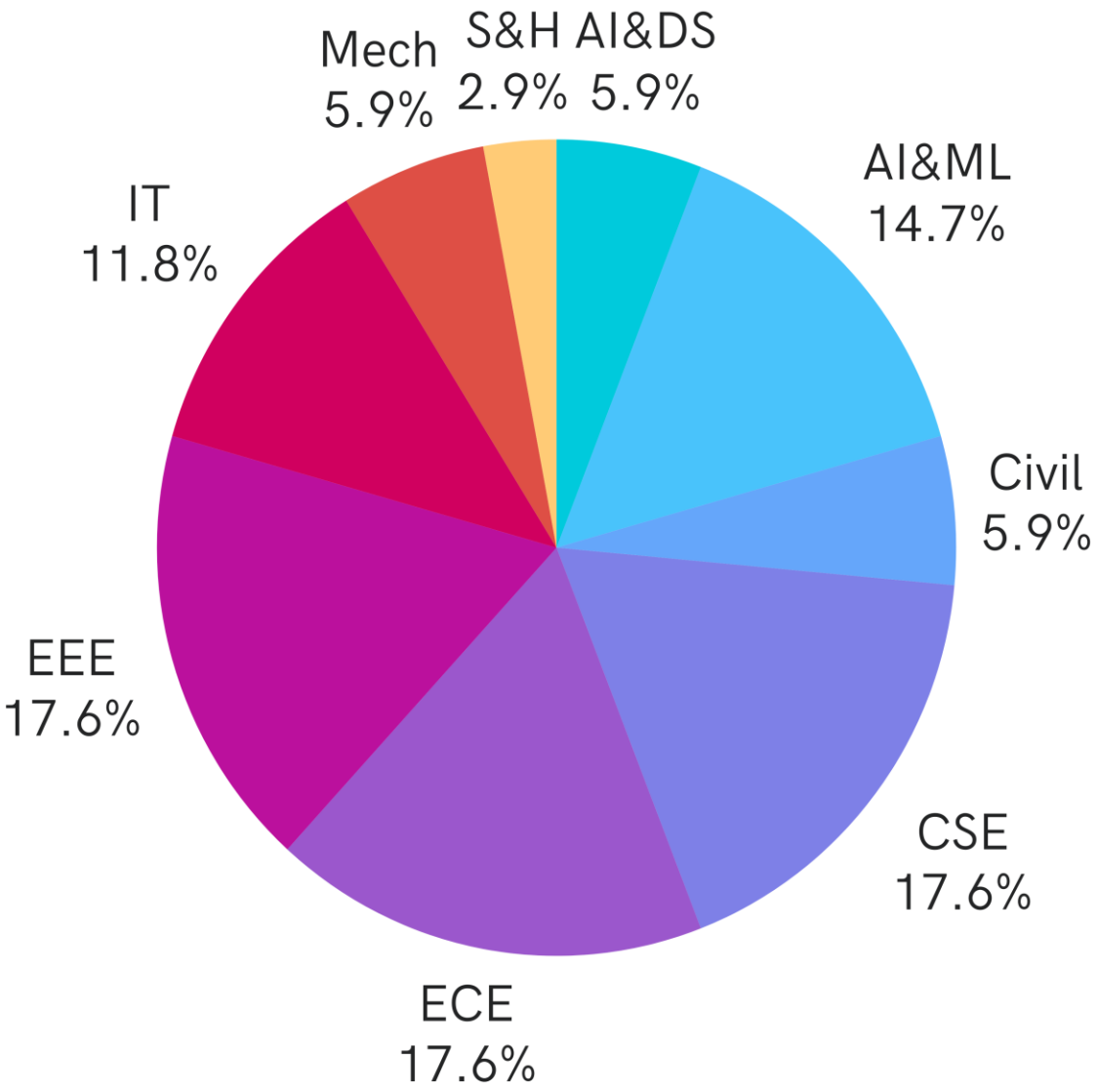
SCIENCE AND HUMANITIES

Faculty Participation

Ms S Vishnupriya, Asst. Professor, completed courses on **"What Researchers Know that You Should Know"** and **"Writing and Editing: Word Choice and Word Order"** through Coursera.

CONTENT CONRIBUTIONS BY THE DEPARTMENTS



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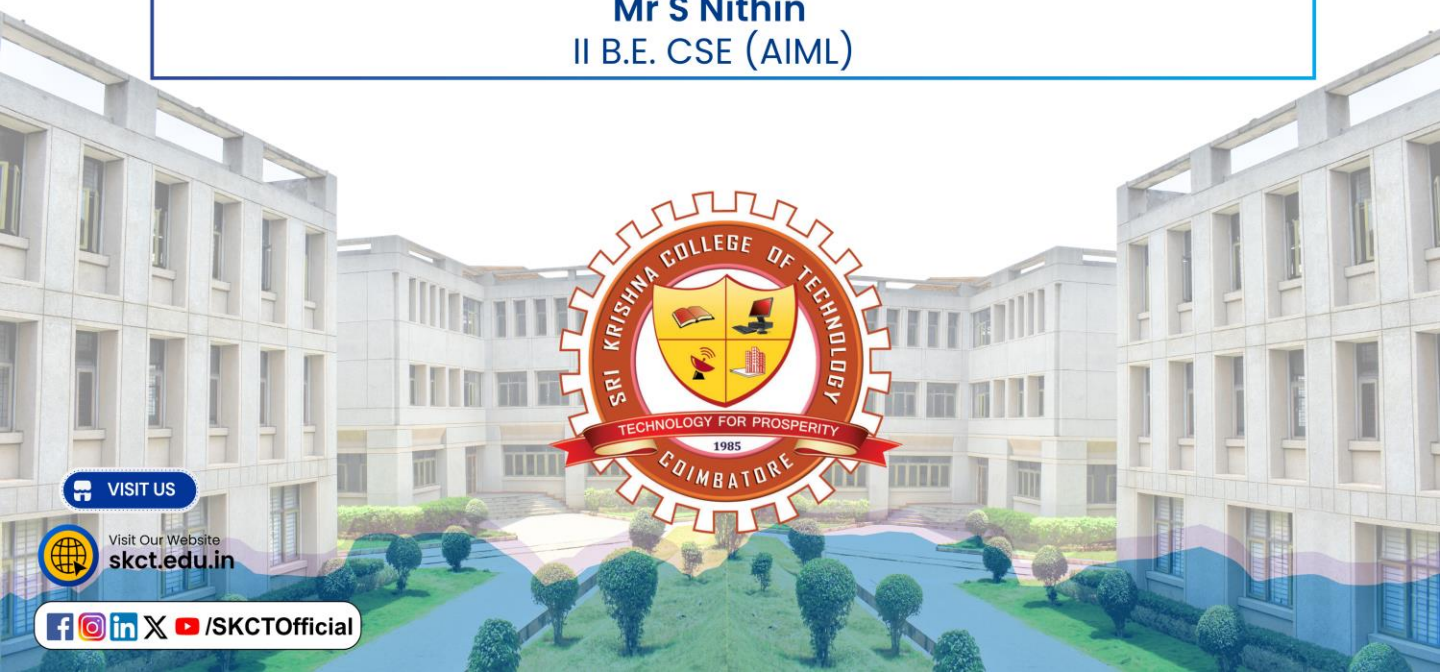

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