



SKCET
Buzz

21st - 27th OCTOBER 2023



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STUDENT PROGRESSION



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MCT | MEN'S KUMITE



J. Bharanidharan, student of **Third** year **MCT** has won Gold medal in 18 years **Men's Kumite** 75kg category in Coimbatore District Karate Championship 2023. The student has also been selected for Tamil Nadu State Championship 2023 to be held in Chennai.

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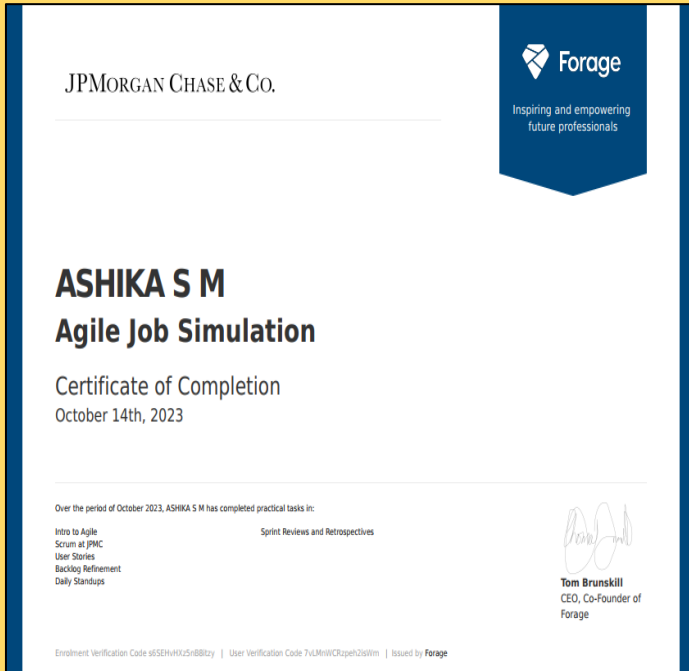
STUDENT CERTIFICATIONS



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AI&DS | FORAGE - CERTIFICATION



Ashika S M, second year student of **AI&DS** has successfully completed a course on **“Agile Job Simulation”** certified by Forage on 14th October 2023.

AI&DS | INFOSYS CERTIFICATION

Shibani Shree S, student of **First** year **AI&DS** has successfully completed the course on **“Blockchain 101”** certified by Infosys Spring board on 22.10.2023.



AI&DS | INFOSYS CERTIFICATION



Miruthula S, student of **First** year **AI&DS** has successfully completed a course on **“Digital Electronics-online Digital Electronics Courses”** Certified by Infosys Spring board on 22.10.2023.

AI&DS | INFOSYS CERTIFICATION

Sanjay M, student of **First** year **AI&DS** has successfully completed a course on **“Skillup in Tableau”** certified by Infosys Spring board on **23.10.2023**.



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EVENTS



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EEE | NIZHAL CLUB ACTIVITY



Nizhal club in association with SKCET NSS Unit conducted an Awareness Campaign on “**Acu - Pressure Healing for Elderly people**” at Sevalayam Oldage Home, Coimbatore. **Dr.B.Karthikeyan** (Acu - Healer) eloquently delivered a presentation to the assembled audience, elucidating the significance of Acu - Pressure points and their healing methodologies. He shared insights on how these techniques can bolster one's immune system and imparted knowledge on key pressure points for self-remediation against maladies such as headaches, hypertension, indigestion, and gastritis. The elderly participants embraced the exercises with enthusiasm and underwent effective treatments utilizing Acu-Pressure points. The event was coordinated by Ms.R.Geethamani, Assistant Professor, EEE.

S&H | EXTENDED HOUR ACTIVITY



Tamil Club of **SHA** conducted an Elocution on தமிழ் மரபு for the **First** year students. The event helped the students in creating awareness about linguistic heritage of the Tamil language. The activity played a vital role in preserving the linguistic heritage of Tamil and also encouraged the correct usage of the language.

CIVIL | OUTSIDE CLASSROOM LEARNING

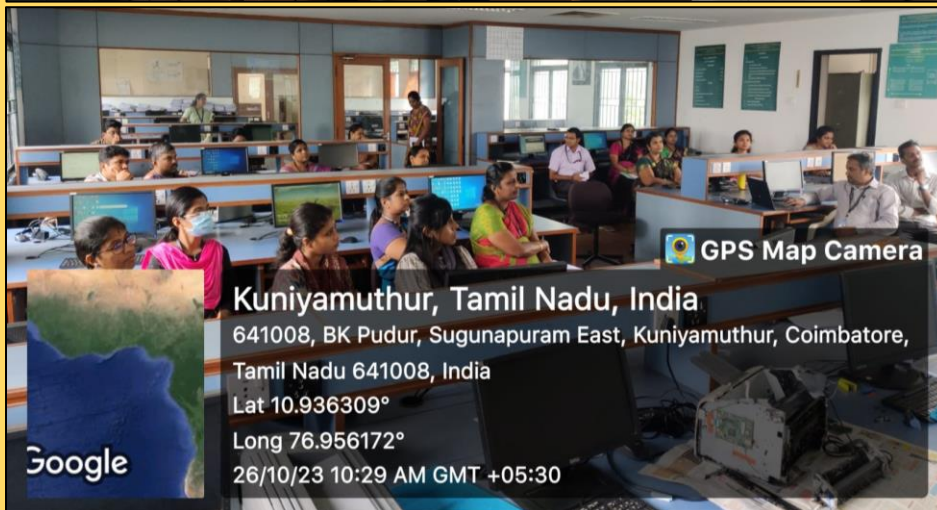


As part of the Outside Classroom Learning Experience (OCLE) for the subject "**Architectural Planning and Building Drawing**", Second year **Civil Engineering** students were taken to Sri Krishna Arts and Science College campus on 14th October 2023. Students were given a complete idea of site planning and spatial organization of academic and administrative blocks.

Key Insights:

- Spatial Organization
- Architectural design significance
- Clustered Organization
- Multiple Symmetrically balanced Courtyards
- Double Roof Lobby as common interlocked spaces.

ECE | FDP ON ENVISIONING THE FUTURE AUGMENTED AND VIRTUAL REALITY



Department of **Electronics and Communication Engineering** has organized a two days Faculty Development Program on “**Envisioning the Future Augmented and Virtual Reality**” on **26.10.2023** and **27.10.2023**.

The chief guest of the day Dr. R. Rajkumar, Assistant Professor, Department of Data Science and Business Systems, School of Computing, SRM Institute of Science and Technology, Chennai.

Session Take-aways:

- Introduction to AR/VR, History of AR/VR, AR/VR Hardware Architecture, Hands on Session using Challau.

INDUSTRY DELEGATE INTERACTION | M.TECH CSE & CSD



Dr.P.KAVITHA RANI, Professor & Head, Department of **M.Tech CSE & CSD** has been invited as **Privileged Delegate** for attending **Two days InfoComm India NIXT Summit 2023 from 25.10.23 to 26.10.23** at **Jio World, Convention Centre, Mumbai**.

In NIXT Summit over 200 International Exhibitors displayed cutting-edge technology solutions.

InfoComm India is a premier platform for industry professionals to connect, exchange knowledge, and explore the latest advancements in audio-visual and integrated experience technologies, also InfoComm India strives hard to empower the organization with the latest Pro AV and technology solutions to stay ahead.

This opportunity of Interaction with Industry has made to discover new tech solutions from experienced industry practitioners and their real-life use case studies and build new meaningful connections at InfoComm India 2023.

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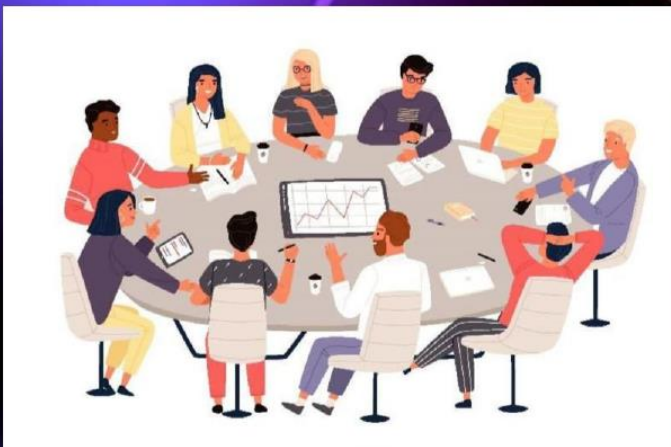


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TUTOR WARD MEETING



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AI&DS | CLASS COMMITTEE MEETING



Department of **Artificial Intelligence and Data Science** conducted **Class Committee Meeting** for the **First** year students on 25.10.2023. **Dr.V.Vijeya Kaveri**, Professor, **Computer Science and Engineering** chaired the meeting. The meeting revolved around the key points like: Syllabus Coverage status, Theory & Lab Subject Feedback, Placement - Problem of the Day, Subject Study Materials and Participation in Extracurricular Events.

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PLACEMENT & TRAINING



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EEE | TESTIMONIAL BY PLACED STUDENTS

Reflecting on my journey and the exciting new chapter I'm about to embark on, I would like to express my deepest gratitude to all my faculty members, tutors, coordinators and Head of the Department who have worked round the clock helping me to achieve my endeavors, as a result of their continuous efforts and supervision I was able to bag a dream offer from a renowned company like Caterpillar. Landing a position at Caterpillar is a dream come true moment and I owe a significant part of this achievement to the incredible experiences and education I received. As I step into this new role, I'm excited and humbled by the opportunities that lie ahead. With the support of my mentors, peers, and the knowledge I've gained, I look forward to make meaningful contributions to the society and building a successful career. Thank you once again for being a part of my journey and for helping me to reach this milestone.

DHANISH BUHARI D
EEE (2024 Batch)
Caterpillar - 12 LPA



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RESEARCH AND DEVELOPMENT



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R&D | JOURNAL PUBLICATION | CSBS

Dr. Ignisha Rajathi G, Associate Professor, Department of **CSBS** has published her Research Article titled **“Automated classification of MRI images for mild cognitive impairment and Alzheimer’s disease detection using log gabor filters based deep meta-heuristic classification”** dated 11th October 2023 in the Journal of Intelligent & Fuzzy systems, JIFS-235118 IOS Press Content Library.

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Automated classification of MRI images for mild cognitive impairment and Alzheimer's disease detection using log gabor filters based deep meta-heuristic classification Cite

Article type: Research Article

Authors: Shanthi, A.S.^{a,*} | Ignisha Rajathi, G.^b | Velumani, R.^c | Srihari, K.^d

Affiliations: [a] Department of Computer Science and Engineering, Tamilnadu College of Engineering, Karumathampatti, Coimbatore, Tamilnadu, India | [b] Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Kuniyamthur, Coimbatore, Tamilnadu, India | [c] Department of Computer Science and Engineering, Gayatri Vidya Parishad College of Engineering (A), Madhurawada, Andhra Pradesh, Tamilnadu, India | [d] CSE, SNSCT

Correspondence: [*] Corresponding author. Dr. A.S. Shanthi, Department of Computer Science and Engineering, Tamilnadu College of Engineering, Karumathampatti, Coimbatore-641659, Tamilnadu, India. E-mail: shanthi87651@gmail.com.

R&D | JOURNAL PUBLICATION | EEE

energies MDPI

Article
Nature-Inspired Energy Enhancement Technique for Wireless Sensor Networks

James Deva Kosh Hozekiah ^{1,✉}, Karnam Chandrakumar Ramya ², Mercy Paul Selvan ³, Vishnu Murthy Kumarasamy ⁴, Dipak Kumar Sah ⁵, Malathi Devendran ⁶, Sivakumar Sabapathy Arumugam ^{7,*} and Rajagopal Maheswar ^{8,✉}

Abstract Wireless Sensor Networks (WSN) play a major role in various applications, yet maintaining energy efficiency remains a critical challenge due to their limited energy availability. Network lifetime is one of the primary parameters for analyzing the performance of a WSN. This proposed work aims to improve the network lifetime of a WSN by enhancing its energy utilization through the Enhanced Monkey Search Algorithm (E-MSA). The E-MSA provides an optimum solution for this issue by finding a better routing decision by analyzing the available energy on the nodes and the distance between the source and destination. Additionally, a Class Tigger Optimization (CTO) algorithm is also included in the work for determining an efficient node to be the cluster head and lead cluster head. In this technique, the data packets are collected by the lead cluster head from the other cluster heads for sending the information in a sequential manner to the base station for reducing data loss. A simulation model is implemented in the NS2 platform with 700 nodes in a 300 × 300 square meter area with 0.5 J of energy to each node for finding the efficiency of the proposed E-MSA with CTO algorithm over the traditional On-Demand Distance Vector (ODDV) and Destination-Sequenced Distance Vector (DSDV) approaches. The experimental outcome indicates that the proposed work can reach a maximum lifetime of 1579 s which is comparatively better than the ODV and DSDV approaches by 212 and 358 s, respectively. Similarly, a packet delivery ratio of 79% is achieved with a throughput of 0.85 Mbps along with a delay of 0.48 s for the operation of all 700 nodes.

Keywords network enhancement; lifetime improvement; customized optimization; energy conservation; hybrid optimization algorithm

1. Introduction
Wireless Sensor Networks (WSNs) are self-configured and infrastructure-less wireless networks for collecting various physical and environmental conditions such as temperature, humidity, motion, light and more. The information collected from the sensing regions is

Check for updates

Citation: Hozekiah, J.D.K.; Ramya, K.C.; Selvan, M.P.; Kumarasamy, V.M.; Sah, D.K.; Devendran, M.; Arumugam, S.S.; Maheswar, R. Nature-Inspired Energy Enhancement Technique for Wireless Sensor Networks. *Energies* **2023**, *16*, 7021. <https://doi.org/10.3390/en16207021>

Academic Editor: Oscar Bustamante

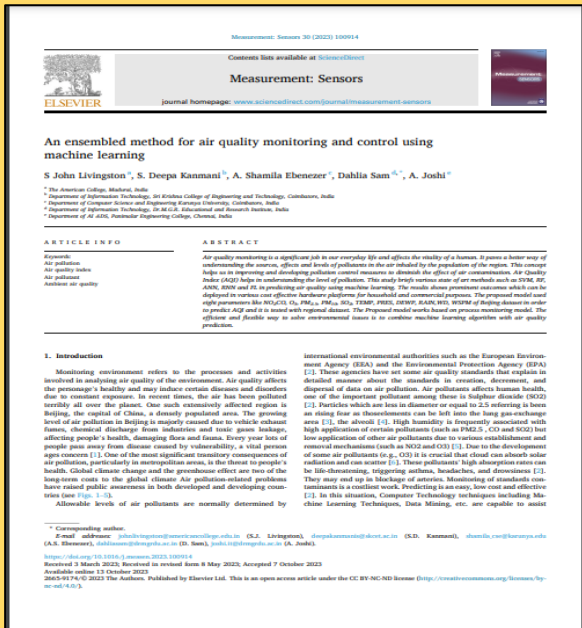
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Energies **2023**, *16*, 7021. <https://doi.org/10.3390/en16207021> <https://www.mdpi.com/journal/energies>

Dr. K.C. Ramya, Professor and Head, Department of **EEE** has published a paper entitled **“Nature-Inspired Energy Enhancement Technique for Wireless Sensor Networks”** in MDPI - Energies, 2023. It is indexed in SCI & Scopus journal with an impact factor of 3.2.

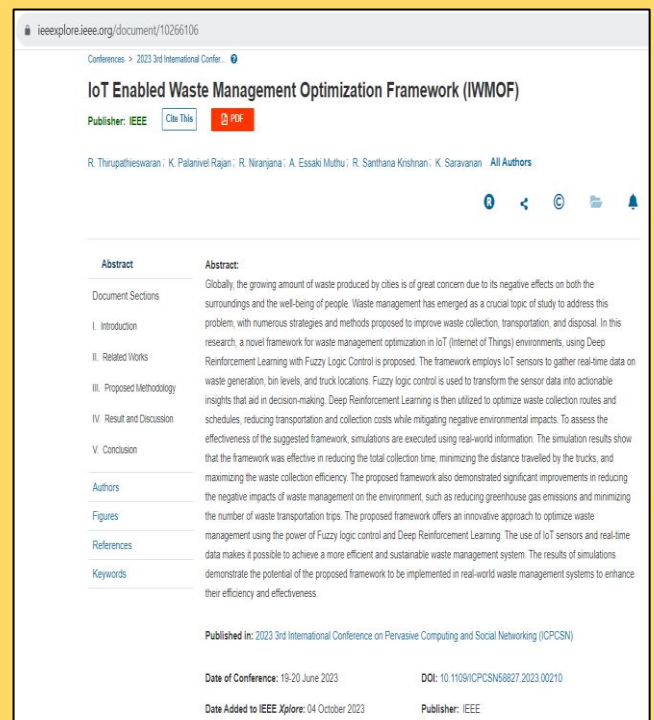
R&D | JOURNAL PUBLICATION | IT



Dr.S.Deepa Kanmani, Associate Professor, IT has published a paper titled **"An Ensemble Method for Air Quality Monitoring and Control using Machine Learning "** in **Measurement: Sensors journal, October 2023.** This is a Scopus indexed publication.

R&D | JOURNAL PUBLICATION | ECE

Ms.R.Niranjana, Assistant Professor, ECE presented and published her **"IoT Enabled Waste Management Optimization Framework (IWMOF)"** conference paper at the **2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSNS 2023).** It is a Scopus Indexed Conference.



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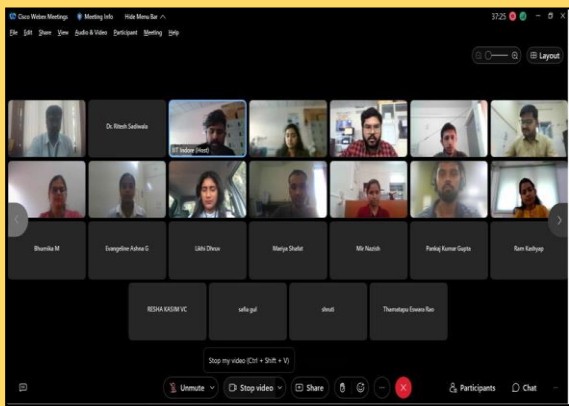
FACULTY PROGRESSION



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CSBS/CYS | SYMPOSIUM PARTICIPATION



Dr.S.Balakrishnan, HoD, **CSBS/CYS** has participated in the Student Research Symposium 2023 (SRS'23) Co-Organized by IEEE Madhya Pradesh Section, Electron Devices Society Chapter, IEEE Nanotechnology Council Student Chapter Indian Institute of Technology, Indore, IEEE Sensors Council Student Chapter Indian Institute of Technology Indore on 10th and 11th October 2023.

CSBS | ATL TINKERPRENEUR

Dr.S.Balakrishnan, HoD, **CSBS & CSY** has been recognized with a certificate of appreciation for his dedicated mentoring and support for the flagship summer boot camp under AIm's Atal Tinkering Labs program **ATL TINKERPRENEUR 2023**. It is a 7-week long virtual summer boot camp which equips students with key digital skills and frameworks to create their own online venture.

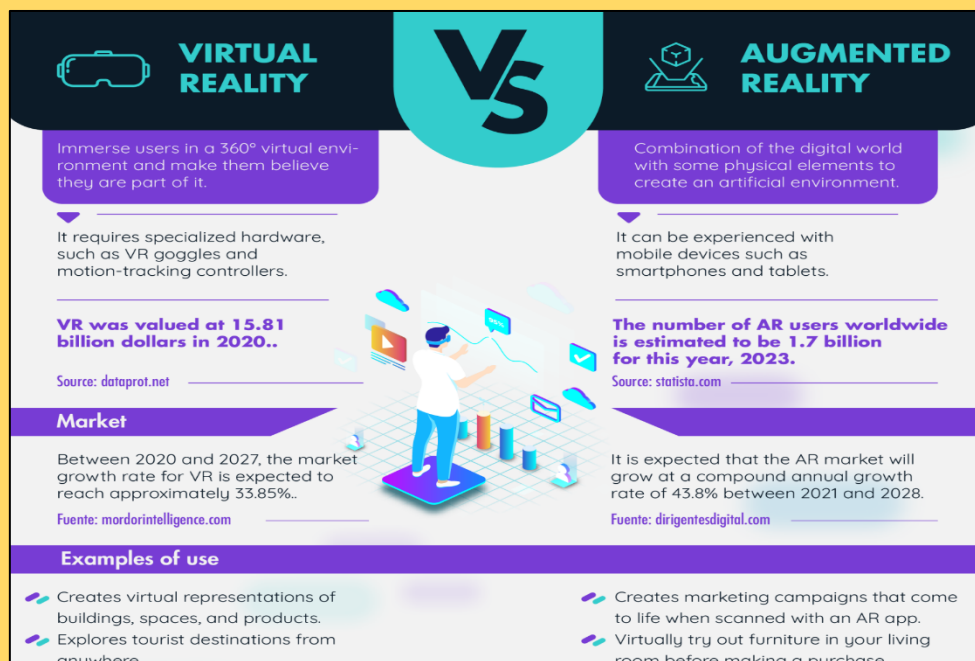


CSE | BEST PAPER AWARD



Dr. Ramesh K, Professor, Department of Computer Science and Engineering has been awarded with “Best Paper Award” for the paper entitled “Early Detection Of Alzheimer's Disease: An Extensive Review of Advancements in Machine Learning Mechanisms Using Ensemble And Deep Learning Technique”, in the two day International conference “Recent Advances in Science and Engineering RAiSE-2023 held from 4th to 5th October 2023 at MAHE, Dubai.

INFOGRAPHICS





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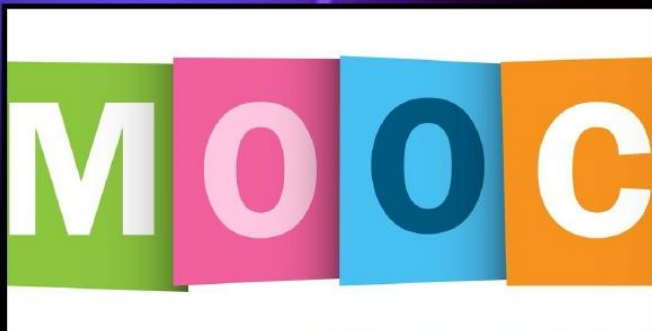


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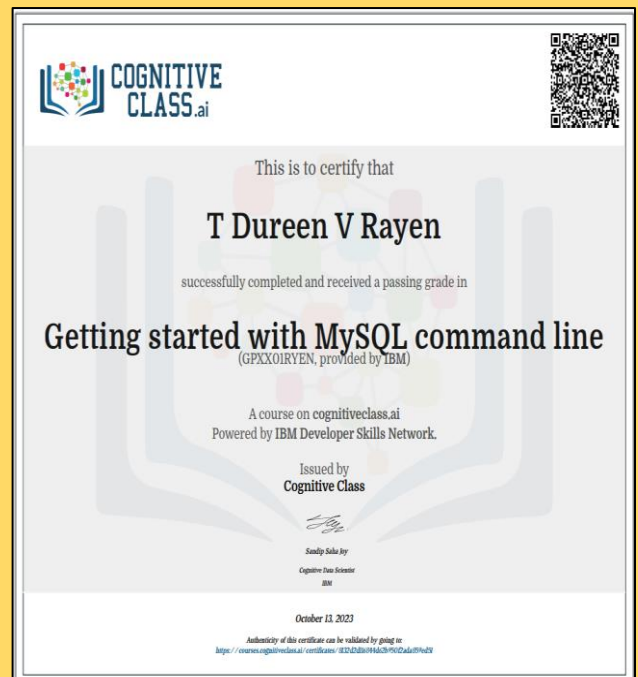
AI&DS | COURSERA CERTIFICATION



Mr.S.Senthil Kumar, Assistant Professor of **AI&DS** has successfully completed the Project Network on “**Deep Learning with PyTorch : Neural style Transfer**” certified by Coursera on **24.10.2023**

M.TECH CSE | IBM CERTIFICATION

Ms.T.Dureen V Rayen, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully completed a certification course titled “**Getting started with MySQL commandline**” through **Cognitive class AI** platform in association with **IBM Developer Skills Network** on **13.10.2023**.



M.TECH CSE | INFOSYS CERTIFICATION

Ms.T Dureen V Rayen, Assistant Professor, Department of **M.Tech CSE** has successfully completed a certification course titled “**Distributed Systems & Big Data**” through Infosys Springboard platform on 12.10.2023.



M.TECH CSE | INFOSYS CERTIFICATION

Dr.K.N.Sivabalan, Professor, IT has successfully completed a course on “**TechA Visual Basic Analysis(VBA) for Excel Foundation**” certification on 19.10.2023 certified by Infosys Springboard.



MCT | WORKSHOP ON EMBEDDED CONTROLLER PROGRAMMING FOR REAL TIME APPLICATIONS



Dr. K. Ananthi, Ms. S. Nithyapriya, Ms. S. Kannaki, Dr. J. Indirapriyadharshini, Dr. M. Bhuvaneshwari, Dr. R. Gopinathan and Ms. R. Priyadharshini, faculty members of MCT have successfully completed “Embedded Controller Programming for Real Time Applications” conducted by SKARDUINO Labs on 18th August 2023.

CSE | NPTEL CERTIFICATION



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SUJARITHA
 for successfully completing the course
Design Thinking - A Primer
 with a consolidated score of **67** %

Online Assignments	21.67/25	Proctored Exam	45.26/75
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Total number of candidates certified in this course: 1852

Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Jul-Aug 2023
 (4 week course)

Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL23MG72S35345084 To verify the certificate No. of credits recommended: 1 or 2

Dr.Sujaritha, Professor,
 Department of **Computer Science and Engineering** has successfully completed a course on **“Design Thinking-A Primer”** with Elite certification.

CSE | NPTEL CERTIFICATION

Ms.Azhaguramyaa V.R ,Assistant Professor, Department of **Computer Science and Engineering** has successfully completed the course **“Introduction to Operating Systems”** with Elite certification.



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
AZHAGURAMYAA V R
 for successfully completing the course
Introduction to Operating Systems
 with a consolidated score of **61** %

Online Assignments	14.46/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: 1282

Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Jul-Sep 2023
 (8 week course)

Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras

Indian Institute of Technology Madras

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Roll No: NPTEL23CS101S35341433 To verify the certificate No. of credits recommended: 2 or 3

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CONFERENCE PRESENTATION



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CIVIL | CONFERENCE PRESENTATION



Dr.P.Saravananakumar, Professor and Head, Department of **Civil Engineering** has presented a paper titled **“An Innovative Approach of CNN-BiGRU based Earthquake Damage Detection of reinforced concrete for framed buildings”** in the International Conference on **“Self-Sustainable Artificial Intelligence Systems (ICSSAS 2023)”** held at M. P. Nachimuthu M. Jagannathan Engineering College, Erode.

LEGENDARY INSIGHT





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AI&DS | CREATIVE CORNER



Anushaa B
I -AIDS Sec A

M.TECH CSE | CREATIVE CORNER



C.N Gunathmika
I M.Tech CSE

M.TECH CSE | CREATIVE CORNER

A Dream

The moment where life seems so unworthy, pointless, and unconcerned, nothing bothers the next move because it all feels like a temporary pause in time and actions, everything except for your breath. You my friend have accomplished the stage of deep sleep.

The surroundings, dark and visually empty; nothing to see, hear, or touch, and suddenly as if it were an un-paused movie, the lights appear to reveal a melodramatic orange-mild yellow tinted evening sky with scrapes of scattered grey clouds. Far above a small flock of deep black shaded birds could be seen slowly displacing across the lovely haven. As I look around everything seems utterly plain and spacious towards the ground.

Nothing packed, but spacious, like the medieval olden times before well-developed factories, buildings, and businesses arrived. All the shops were minute in size, with only little tuck shops, restaurants, candy shops, and little toy shops, distantly scattered around along with people. This was definitely a long time back.

People, dressed in traditionally casual south Indian clothes; giggling children running about. Where the boys are dressed in an array of beige and dust-colored oversized shorts and t-shirts, the little girls elegantly draped with a long, ankle-length skirt and top with puffy sides, hair combed and braided neatly with a tiny bunch of jasmine flowers on each of their head. The ladies are gorgeously adorned with sarees and a larger tidy cluster of flowers, orange and white. The men dressed in a 'veshti' and any dull colored top.

The surrounding was serene and calm, everyone minding their business, happy, smiling, and living a simple life. As I looked up further, I was astounded to see a huge structure made of rock giving me shelter, when I turned back, I was amazed at the view of the magnificent, robust, and vaguely colored huge temple. With partitions separating it making it smaller and smaller as it went upwards, like a pyramid.

M.TECH CSE | CREATIVE CORNER

However, at each partition there was a hole showing the other side of the temple or the world on its own. I definitely couldn't hold my curious excitement and went right inside, which instantly became the best decision I've ever made in a dream. Inside the temple, it was like a heart of culture, tradition, and peace elegantly prompting their unique beauty as one. As I walked through, the gigantic wooden gate, as big as the shelter with golden bulges at each edge prominently welcomed me. The hard rough rock pillars of the temple intricately carved with horses, elephants, and anonymous human figures helping and supporting each other bordered the main walkway separating at various points making the whole wondrous haven of a temple.

At each corner were minute shrines again made of rock, adorned with flawless carvings where inside was a figure of a god that once did something great and is yet prayed and praised for it. Not only is the temple absorbed to these shrines but there are many similar to these with different gods, the only beautiful difference is the size. Along my journey through this mystical palace, the pillar continues and makes its way to every possible nook and corner, with a highly elevated edge spaciouly left for room for people to sit, eat the offerings, children to play in discipline, and an ideal family to come and chat. At this point even though it sounds like a medieval resort to spend time in, it was and is always built for religious purposes.

The beauty of the temple was in the people around it, it was an important element as well, like the meaning to a painting, the colorful skies to a sunset, or the crunchy leaves on the ground to a dense forest. The people and their actions here add more character to this place. Some ladies, carrying a metallic little basket, with a coconut, bananas, incense sticks, few jasmines, ripe red roses, and marigolds all packed together like a beautiful bouquet of magnificence wondering around.

Others were posh yet again traditionally dressed civilians adorned with the finest silk clothes, truly a pleasure to the eyes, and adorned with heavy, sophisticatedly detailed jewelry. All eyes were on the ladies here, their resilient gold-bordered silk sarees, gold bangles, necklaces, head pieces and earrings, with colorful stones complementing each other in a simple but graceful way.

M.TECH CSE | CREATIVE CORNER

The children dressed the same adorable way, these people were at the centre huge shrine, as close as anyone could get to the 'main god' of the temple.

As they get seated gently having their hands clasped together, a symbol of someone praying in terms of the Hindu religion. The beauty is every religion, the Sikhism, Buddhism, Jainism, Christianity, Islam and many more have their unique way of prayer. Unlike an expertise statement, it will be fair enough to say this is how Hindu's pray to the simplest form. The '*mantri*' brings in a plate with a continuously burning '*diya*', with a white and red powder to them constantly muttering something.

On the other side again to the entrance of the temple, is a huge, and long structure made of gold vaguely looking like a bunch of vessels stacked on top of each other got my eye. It looked like a mountain of delicately balanced hardships, since the vessels ideally are bound to topple over each other, but it stands still like a difficult mountain of prominence and resilience something which people lack at certain points of their life.

Together, in this masterpiece lays the peace and tranquillity of many souls; rich, poor, famous, different, unvalued, vulnerable, dreadful, guilty, grateful, depressed, lost, and it goes on. People find their identity; we're ironically blinded of that fact. However, no matter how hard one tries, we all face at least some of such moments that form memories, eventually to which time shall dawn upon and bring us with answers we either live with or change for. This temple has sheltered many such beautiful personalities of which one shall never know.

As this thought strikes me, the bells of the temple ring. Synchronized. Unbothered. But. Always. At peace

C.N Gunathmika

I M.Tech CSE