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NEWSLETTER

JANUARY 2025

ISSUE 13



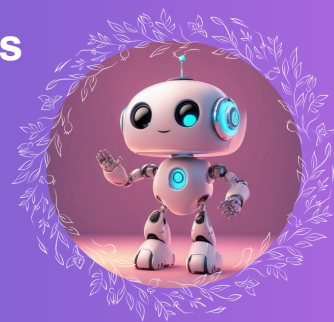
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



IMAGINE, INNOVATE, IGNITE WITH AI

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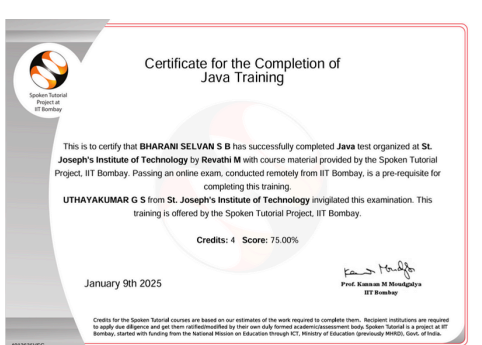




STUDENT ACHIEVEMENTS

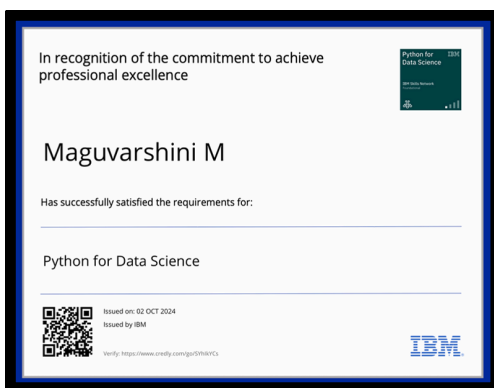


The Department of Artificial Intelligence and Data Science **Celestin Dass A J, Joshva D, Pardhavika G , Jerlin, Antony Ronaldo A, Dineshkumar M, Jerlin J, Infant Joel E, Anto Rahul A, Vimalraj R** proudly announces that its students have successfully completed the Online Java Training program conducted by **Spoken Tutorial, IIT Bombay**. This training program aimed to equip students with a strong foundation in Java programming, a critical skill in the fields of artificial intelligence, machine learning, and data science.



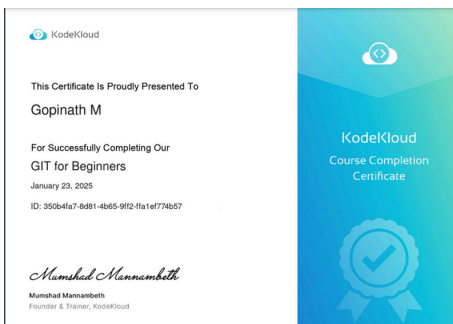
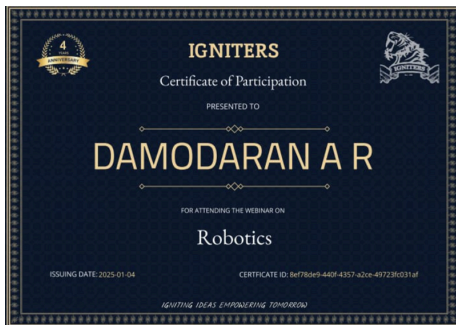
The Department of Artificial Intelligence and Data Science Vishweshwar R, Akshay Siddharth P, Diwakar, Preetha S, Maguvarshini M, Avins V R, Nandhini S, Dargin Vino M, Bharani Selvan S B proudly announces that its students have successfully completed the Online Java Training program conducted by **Spoken Tutorial, IIT Bombay**. This training program aimed to equip students with a strong foundation in Java programming, a critical skill in the fields of artificial intelligence, machine learning, and data science.

STUDENT ACHIEVEMENTS



Students **Maguvarshini M**, **Vishweshwar**, **Jerish** from the Department of Artificial Intelligence and Data Science have successfully completed various **online courses** from **IBM**, **TCS iON** and **Udemy** enhancing their technical expertise. Additionally, they actively participated in the Global Freelancer Festival, gaining insights into freelancing opportunities and industry trends. These achievements showcase their commitment to continuous learning and professional growth. The department congratulates them on their success and encourages them to keep excelling.

STUDENT ACHIEVEMENTS



Students **Damodaran A R**, **Aravindkumar Ponsingh S A**, **Gopinath**, **Gowri**, **Maguvarshini**, **Gopisetty Pardhavika G**, **Joshva D** from the Department of Artificial Intelligence and Data Science have successfully completed courses from **Coding Ninjas 360**, **Coursera**, **Cisco** and **KodeKloud**, enhancing their technical skills. They also showcased their talent by participating in **IGNITERS**, **Unstop Quiz**, and **MyGov Quiz competitions**. These achievements reflect their dedication to continuous learning and academic excellence. The department congratulates them on their success and encourages them to keep striving for more.

STUDENT INTERNSHIP



Aravind M, Velan R and Vethika V of III Year from the Department of Artificial Intelligence and Data Science have successfully completed their internship at CDW Internship, IIT Research Park!

This accomplishment showcases their dedication to hands-on learning and their commitment to gaining industry-relevant experience in the field of AI and data science. We congratulate them on this achievement and look forward to seeing their continued success as they apply their skills in future endeavors!



STUDENT INTERNSHIP



Joshva D, Gopisetty Pardhavika of II Year from the Department of Artificial Intelligence and Data Science have successfully completed their internship at Agirva. During the program, they gained hands-on experience, applied their technical knowledge to real-world projects, and honed their professional skills. Their accomplishment reflects the department's commitment to bridging academic learning with industry exposure.

STUDENT INTERNSHIP WITH STIPEND



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Department of Artificial Intelligence and Data Science

Congratulations

INTERN AT
Phosphene.ai

Stipend
Rs.20,000/-
Per month

Mr.C.Raghul
(Batch 2022 – 2026)

Deep Learning Intern

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*The Choice of
Disciplined Toppers*

The Department of Artificial Intelligence and Data Science congratulates **Mr. C Raghul** of III-year student has secured an internship as a **Deep Learning Intern at Phosphene.ai**, with a **stipend of ₹20,000/-**. This opportunity marks a significant step in his professional development, showcasing his skills and potential in the field of software development.

PLACEMENTS





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Department of Artificial Intelligence and Data Science



Srihari S



Manju D



Naveen M



Selvamani RK



Nethriya V



**Christina
Evangeline K**



Rithika S

Congratulations

(Batch 2021-2025)



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*The Choice of
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6 LPA

Placed at

Innoura


TECHNOLOGIES

Data Engineer Position


Seven final-year ADS students have secured placements at Innoura Technologies, Thoraipakkam, with a 6 LPA package. Their dedication and outstanding performance during a three-month internship resulted in full-time job offers. Our engagement with this AI-driven company began in August, leading to an MOU that has opened excellent career opportunities. This collaboration has provided hands-on industry exposure, fostering essential skills for the future.

AI COMMUNITY DAY





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Department of Artificial Intelligence and Data Science

AI Community Day


Date : 10/01/2025
Time : 9 AM - 12 PM
Venue : AV Hall - 1

Made possible with the support of :









Vinayak Hegde
 Principal AI Advocate
 Microsoft
 Bengaluru



Henk Boelman
 Principal Cloud Advocate
 Microsoft
 Netherlands



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The Department of Artificial Intelligence and Data Science successfully conducted **Global AI Community Day** on **10th January 2025**. The event brought together AI enthusiasts, students, and experts to explore the latest advancements in artificial intelligence. Engaging sessions, workshops, and discussions provided valuable insights into emerging AI technologies. The department appreciates the active participation and support that made the event a great success.

AI COMMUNITY DAY



The event featured esteemed chief guests **Vinayak Hegde** from Microsoft **Bangalore** and **Henk Boelman** from Microsoft **Netherlands**, who shared valuable insights on AI innovations and industry trends. Engaging sessions, workshops, and discussions enriched students' knowledge of emerging AI technologies. The department appreciates the participation and support that made the event a great success.

Student Paper Publication

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Department of Artificial Intelligence and Data Science

IEEE INTERNATIONAL STUDENTS' CONFERENCE SCEEC'S'25
MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

Title: Integrated Farm Security System

C Harshavardhini
W Arockia Franciska

S Arockia Shermila

18th – 19th January 2025, Bhopal, India

III Year ADS

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The Choice of Disciplined Toppers



Students Arockia Franciska W, Harshavardhini C, Arockia Sharmila S from the Department of Artificial Intelligence and Data Science proudly presented research papers titled **"Integrated Farm Security System"** at the **IEEE International Conference** held in **Bhopal on 18th and 19th January 2025**. Their contributions showcased innovative ideas and advancements in AI and data science. This achievement highlights their dedication to research and academic excellence. The department congratulates them on their success and encourages them to continue their research endeavors.

Memorandum of Understanding (MOU)

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

INDUSTRIAL COLLABORATION

Memorandum of Understanding (MOU) With INNOURA TECHNOLOGIES

MOU Outcomes

- Internship
- Placements
- Incubation
- Training Programme
- Activities under CSR

Date : January 29, 2025

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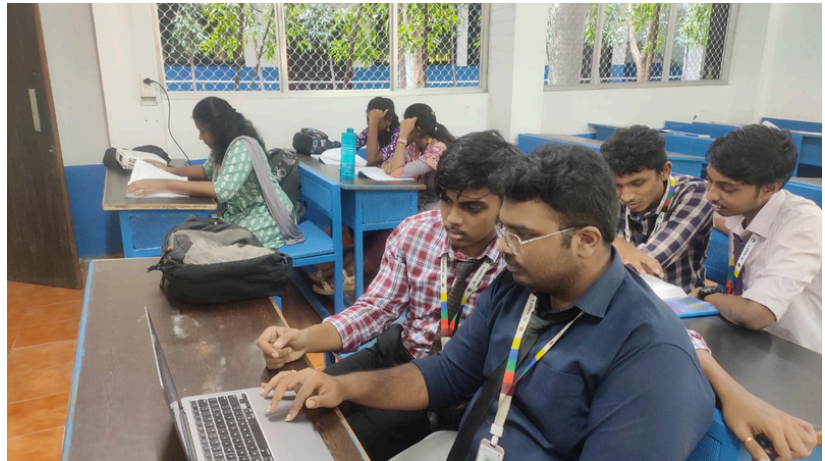
The Choice of Disciplined Toppers

The Department of Artificial Intelligence and Data Science (ADS) has signed an MOU with **Innoura Technologies**, leading to significant opportunities for students and faculty. **The key outcomes of this collaboration include:**

- **Internship:** Hands-on industry experience for students.
- **Placements:** Successful transition of interns into full-time roles.
- **Incubation:** Potential for an incubation center on campus.
- **CSR Initiatives** – Industry-driven projects benefiting the academic ecosystem.
- **Faculty Training:** Upskilling faculty with the latest industry trends.

This partnership strengthens industry-academia engagement, fostering innovation and career growth.

SEERA CLASSES



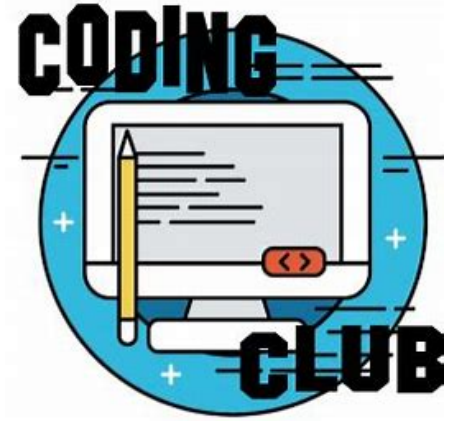
On January 08, 2025 and January 22, 2025 Seera classes were held for our III Year ADS students. The training sessions were categorized into targeted areas, including High package placement, ABHS and communication. This focused approach aimed to equip students with essential skills and prepare them for their upcoming career challenges and opportunities.

SEERA CLASSES



On January 03, 2025, January 10, 2025 and January 24, 2025 Seera classes were held for our II Year ADS students. The training sessions were categorized into targeted areas, including High package placement, ABHS and communication. This focused approach aimed to equip students with essential skills and prepare them for their upcoming career challenges and opportunities.

CLUB ACTIVITIES



Our Coding Club events on 7th January 2025 and 29th January 2025, where students participated in various coding activities to test and enhance their skills. Special Congratulations to **M Arthi**, a 3rd-year student, who secured 3rd place in one of the competitions!

These events provided our students with an excellent platform to showcase their coding abilities and foster collaboration with peers.



Our department's students and faculty recently participated in two NGO visits to engage with social organizations and witness their impactful work.

NGO Visit on Saturday, 4th January 2025

- 📍 **Oxford Home, Urapakkam**
- 📍 **Amma Appa Old Age Home, Kundrathur**

NGO Visit on Tuesday, 9th January 2025

- 📍 **Apara old age home, Thiruvallur.**

NGO Visit on Saturday, 25th January 2025

- 📍 **MANASU, St. Thomas Mount, Pallavaram**

During these visits, students and faculty distributed food and groceries, and actively engaged in various activities with the residents. These interactions offered valuable insights into the lives of those in need and emphasized the importance of social responsibility.

UmanageTN 2025 The Talent Hub for Global Tech



Our faculty and students had the opportunity to attend **UMAGINE 2025** on **January 09, 2025** and **January 10, 2025** at **Chennai Trade Centre**, an event that brought together leaders and innovators from various industries. During the event, they had the privilege of meeting **Sidd Ahmed**, the **CEO and founder of VDart Group**. This interaction provided valuable insights into the rapidly evolving tech industry and the future of AI and data science. The experience also allowed our students to gain firsthand knowledge from an industry expert, enhancing their understanding of real-world applications. It was a great opportunity for networking and learning from one of the prominent figures in the tech world.

CAREER CONNECT SESSION



The ADS Department recently hosted a **Career Connect Session** on **January 28, 2025** with **Mr. Rajkumar Madhuran, Co-Founder and CTO of CIX**, along with their HR team. They delivered an insightful presentation, offering an overview of their industry operations and sharing valuable knowledge about the current trends in the tech world. Mr. Madhuran specifically encouraged third-year and final-year students to submit their resumes in preparation for upcoming internship and placement interview schedules. This session provided students with essential guidance and an opportunity to connect with industry experts. It was an excellent platform for students to align their career goals with industry expectations.



SkillRack Toppers

Final Year(2021-2025)

S.No	Name	Programs Solved	Bronze	SkillRack Rank
1	SRIHARI R	2258	1317	1494
2	DHANESH C	2107	1073	1952
3	KIRUTHIKA P	1277	366	8860
4	RINITH Y	1172	536	11211
5	LEO S	1156	603	11739

Third Year (2022-2026)

S.No	Name	Programs Solved	Bronze	SkillRack Rank
1	YADAV PRASAD G B	2386	1201	1236
2	KATHIRAVAN B	2001	990	2359
3	PRAVEEN S	1898	971	2789
4	BALASUBRAMANIAN M	1486	546	5998
5	LANKESH M	1352	658	7873



Second Year(2023-2027)

S.No	Name	Programs Solved	Bronze	SkillRack Rank
1	MARIA PETER RUFIN M	1726	477	3638
2	RISHINI DHARAN T	1652	501	4235
3	SABARISH S	1613	418	4478
4	ROHITSURYA A T	1598	489	4715
5	INFANT JOEL E	1512	363	5679

Our students have consistently excelled in coding and problem-solving on SkillRack, securing the top five positions. Their dedication to upskilling has truly paid off. Congratulations to all our achievers for this outstanding accomplishment!

Class Toppers

















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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

TOPPERS SCORED 8.5 CGPA AND ABOVE
 (UPTO 7th SEM)

BATCH 2021 – 2025

 KIRUTHIKA P  8.83	 NETHRIYA V  8.82	 PRADHIKSHA B  8.63
 ARON NAMBIKAI FERNANDO J  8.58	 RITHIKA S K  8.58	 SANJITH KUMAR R  8.58


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Our Final Year Students of the 2021–2025 batch have shown exceptional performance, with six members achieving an 8.5 CGPA upto the 7th semester! This remarkable achievement reflects their dedication, hard work, and commitment to excellence in their academic journey. We wholeheartedly congratulate these students for their outstanding performance and wish them continued success in their final semester and beyond!

Class Toppers



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

TOPPERS SECURED 8.5 CGPA AND ABOVE
 (UPTO 5th SEM)

2022-2026 BATCH

 BHARATH A I 9.24	 RAMYA S 9.22	 RAMYA K 9.19	 SANTHOSH I 9.16	 HARIHARAN K 9.08	 MOHANA PRIYA S 8.98	 MADHU SANKAR S 8.92
 AARTHI M 8.89	 BALASUBRAMANIAN M 8.87	 ANNSI E 8.79	 NITHEESHWARI S 8.78	 DURGA P 8.77	 DEEPIKA D 8.75	 SAHANA S 8.75
 TARANI J 8.75	 KATHIRAVAN B 8.74	 VETHIKA V 8.72	 MAMATHI S 8.7	 DELINA P 8.69	 HARISH B 8.69	 KEERTHIYA T 8.67
 JOSHITHA R 8.67	 HARINI T 8.67	 MALAR T 8.66	 NIZAM I 8.64	 KAVINMATHI V 8.64	 VIJITHAA K J 8.62	 JENISHA J 8.62
 LINGESH 8.59	 BAVIYA SHREE 8.59	 DEEPAN S B 8.58	 ARUN VIJAY A P 8.58	 ISHANI M 8.58	 DHARSHINI G 8.58	 YUVASHREE MP 8.58
 SANJAY 8.58	 HARSHINI K N 8.56	 ABINAYA K 8.55	 YAKSHETHA 8.54	 PUJA L 8.52	 VISHNU PANDIAN R 8.52	 SAM DANIEL S 8.52
 ROHITHAR 8.51	 GABRIEL ALWIN S 8.50					

Our third Year Students of the 2022–2026 batch have shown exceptional performance, with 44 members achieving an 8.5 CGPA upto the 5th semester! This remarkable achievement reflects their dedication, hard work, and commitment to excellence in their academic journey. We wholeheartedly congratulate these students for their outstanding performance and wish them continued success in their final semester and beyond!

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
ACADEMIC TOPPERS 8.5 ABOVE (UPTO III SEMESTER)
BATCH 2023 - 2027

 SHERILEEN ANTHEA S 312423243164 9.39	 SAARAH ZAYN 312423243166 9.35	 SUVETHA PT 312423243179 9.24	 SREENITHY SS 312423243174 9.2	 DHANISHA BHURUNO J 312423243050 9.11	 KAAVIYAA SHREE S 312423243088 9.05	 AAGNES PRECELLA T 312423243001 9.01
 DHARSHINI P S 312423243051 9.01	 BIJINOLIN S 31242324304 8.99	 PRADHEEP RAJA A 312423243128 8.99	 JAZILA BEGUM B 312423243080 8.97	 ABINAYAA SRI T 312423243004 8.93	 JHANANI S 312423243085 8.88	 HARINI P 312423243065 8.84
 YOGIRAM B 312423243303 8.81	 RISHINI DHARAN T 312423243181 8.77	 SANCHANA ASMI B 312423243154 8.72	 ADITHYA R 312423243008 8.72	 HARIPRIYA S 312423243067 8.71	 JEEVA M E 312423243086 8.71	 SHRINITHI MAHALAKSHMI R 312423243169 8.71
 DERANGULA HANSIKA 312423243047 8.69	 JESWANTH K 312423243083 8.68	 PRIYADHARSHINI M 312423243031 8.68	 ANTONY RONALDO A 312423243023 8.65	 MAHATHI SRI M R 312423243101 8.65	 SABARISHI S 312423243047 8.65	 LAKSHMI PRADDEEPA 312423243096 8.63
 NARMATHA S 312423243117 8.63	 NISHA BEITTOLIN X I 312423243120 8.63	 ALEX ROHITH I 312423243017 8.61	 MOHAMED AJMEER M 312423243108 8.61	 RAMYA R 312423243137 8.61	 SANDHYA S 312423243155 8.62	 THARASAN KANTHASWAMY 312423243183 8.6
 AKSHAYA S 312423243094 8.59	 GAYATHRI R 312423243056 8.59	 HASVITHA R 312423243071 8.55	 JEEVIA HARSHINI M 312423243081 8.53	 MONIKA K 312423243112 8.53	 VIMALRAJ R 312423243188 8.53	 HEMA RAMACHANDRAN 312423243072 8.52


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Our Second Year Students of the 2023-2027 batch have shown exceptional performance, with 42 members achieving an 8.5 CGPA upto the 3rd semester! This remarkable achievement reflects their dedication, hard work, and commitment to excellence in their academic journey. We wholeheartedly congratulate these students for their outstanding performance and wish them continued success in their final semester and beyond!

STAFF ACHIEVEMENTS




Patent Publications





Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India.

govin



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DESIGN PATENT TRADE MARKS
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Application Details	
APPLICATION NUMBER	202541001228
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/01/2025
APPLICANT NAME	1. MOHAN CHINNASAMY 2. Dr. A. Muthu Manickam 3. Mrs. M. Uma 4. Mrs. N. Prabhavathi 5. Mrs. R. Shanmuga Sheela 6. Dr. P. Sridevi 7. Dr. D. Anita Daniel 8. Mr. K. S. Senthil Kumar 9. Ms. S. Yuvashree 10. Mr. P. Vinodh Kumar
TITLE OF INVENTION	Design and Analysis of Compact Wideband Meandered Line Frequency Selective Surface (FSS) with Angular Stability
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	mohanc@stjosephstechnology.ac.in
ADDITIONAL E-MAIL (As Per Record)	mohanc@stjosephstechnology.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/01/2025

Mr. P. Vinodh Kumar

Assistant Professor, Department of Artificial Intelligence and Data Science

Mr. P. Vinodh Kumar, has recently published a patent application on a **Design and Analysis of Compact Wideband Meandered Line Frequency Selective Surface (FSS) with Angular Stability**. This innovative work focuses on the design and analysis of a wideband Frequency Selective Surface (FSS), enhancing angular stability and improving performance in advanced communication systems. Such breakthroughs are crucial for modern wireless networks and satellite communications, where efficiency and reliability are paramount.

Patent Details:

Patent Title: Analysis of Compact Wideband Meandered Line Frequency Selective Surface (FSS) with Angular Stability

Application Number: 202541001228

Date of Publication: 10/01/2025



STAFF ACHIEVEMENTS

Patent Publications



(12) PATENT APPLICATION PUBLICATION		(21) Application No. 20241104960 A
(19) INDIA		
(22) Date of filing of Application: 31/12/2024		(43) Publication Date: 17/01/2025
(54) Title of the invention: SELF-HEALING ROBOTIC NETWORKS WITH AI-ORCHESTRATED REPAIR MECHANISMS		
(71) Name of Applicant : [1] Dr. T. Subbaraj Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF MCA, RAJARAESWAR COLLEGE OF ENGINEERING, BENGALURU, KARNATAKA-560074. [2] Dr. M. Karuppusamy [3] Dr. K. Karthikeyan [4] Dr. Anshu T. P. [5] Srinivas A [6] Dr. Parashanthan [7] Thirumal K [8] R. S. Priya [9] Dr. Ganesan Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : NA		Dr. T. Subbaraj Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF MCA, RAJARAESWAR COLLEGE OF ENGINEERING, BENGALURU, KARNATAKA-560074. Dr. M. Karuppusamy Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, RAJARAESWAR COLLEGE OF ENGINEERING, BENGALURU, KARNATAKA- 560074. Dr. K. Karthikeyan Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, ENGINEERING, Kalingarayana Academy of Research and Engineering, Annabagur, Krishnankot, Tamil Nadu India Pin code-62110. Dr. Anshu T. P. Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF CSE, R.M.K. College of Engineering and Technology, R. S. M Nagar, Palurpet, Tamil Nadu India Pin code-601206. Srinivas A Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, SNS College of Technology, Coimbatore, Tamil Nadu India 641017. Dr. Parashanthan Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF CSE, Mada Reddy University, Hyderabad, Telangana, India, Pin code-500100. Thirumal K Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, Guru Nanak Institute of Technology, Hyderabad Telangana India 501506. R. S. Priya Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF AIEDS, St. Joseph's Institute of Technology, Chennai Tamil Nadu India 600109.
(51) International classification: G06N2002000000, G06F0113400000, G06F0113000000		
(86) International Application No. NA		
(87) International Publication No. NA		
(81) Patent of Addition to Application Number NA		
(52) Divisions of Application Number NA		
(53) Filing Date NA		
(54) Title of the invention: SELF-HEALING ROBOTIC NETWORKS WITH AI-ORCHESTRATED REPAIR MECHANISMS		
(71) Name of Applicant : [1] Dr. T. Subbaraj Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF MCA, RAJARAESWAR COLLEGE OF ENGINEERING, BENGALURU, KARNATAKA-560074. [2] Dr. M. Karuppusamy [3] Dr. K. Karthikeyan [4] Dr. Anshu T. P. [5] Srinivas A [6] Dr. Parashanthan [7] Thirumal K [8] R. S. Priya [9] Dr. Ganesan Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : NA		
(51) International classification: G06N2002000000, G06F0113400000, G06F0113000000		
(86) International Application No. NA		
(87) International Publication No. NA		
(81) Patent of Addition to Application Number NA		
(52) Divisions of Application Number NA		
(53) Filing Date NA		
(54) Title of the invention: SELF-HEALING ROBOTIC NETWORKS WITH AI-ORCHESTRATED REPAIR MECHANISMS		

Mrs. S.B Priya

Assistant Professor, Department of Artificial Intelligence and Data Science

Mrs. S.B Priya, has recently published a patent **Application on a Design and Self-Healing Robotic Networks with AI-Orchestrated Repair Mechanisms**. This groundbreaking innovation leverages Artificial Intelligence (AI) and robotics to develop self-healing robotic networks, enabling autonomous repair and maintenance of connected systems. By incorporating AI-driven repair mechanisms, this technology enhances efficiency, reliability, and resilience in robotic networks, paving the way for advanced automation and smart infrastructure.

Patent Details:

Patent Title: Application on a Design and Self-healing Robotic Networks with AI-orchestrated Repair Mechanisms

Application Number: 20241104960 A

Date of Publication: 17/01/2025

STAFF ACHIEVEMENTS



Patent Publications



Application Details	
APPLICATION NUMBER	202441103129
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/12/2024
APPLICANT NAME	1. Dr. Ravichandran S 2. Mr. K. P. Senthikumar 3. Mr. P. Udayasankaran 4. Dr. R. Kanakaraj 5. Dr. P. Ram Mohan Reddy 6. Dr. M. P. Reshmi 7. Dr. Naveen L 8. Mr. Lakshminarayanan S 9. Mr. Manickavasagan V 10. Mr. Rathana Sabapathy S 11. Dr. K. Sankala 12. Mr. P. Munagan
TITLE OF INVENTION	SYSTEM AND METHOD FOR CRYPTOGRAPHIC DATA PROTECTION USING ADVANCED MATHEMATICAL TECHNIQUES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	patentmgr23@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (EJS 11A)	10/01/2025
Application Status	

Mr. Lakshminarayanan S

Assistant Professor, Department of Artificial Intelligence and Data Science

Mr. Lakshminarayanan S, has recently published a patent **System and Method for Cryptographic Data Protection using Advanced Mathematical Technologies**. This innovative work introduces advanced cryptographic techniques to enhance data security and privacy, ensuring robust protection for sensitive information in digital systems. Such advancements play a crucial role in cybersecurity, secure communications, and data integrity across various industries, including healthcare and finance.

Patent Details:

Patent Title: System and Method for Cryptographic Data Protection using Advanced Mathematical Technologies

Application Number: 202441104960 A

Date of Publication: 10/01/2025

STAFF ACHIEVEMENTS



Patent Publications



 Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India http://ipindia.nic.in/index.htm	
 INTELLECTUAL PROPERTY INDIA <small>INDIAN PATENT, DESIGN & TRADE MARKS OFFICE</small>	
Application Details	
APPLICATION NUMBER	202421097327
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/12/2024
APPLICANT NAME	1. Digendra Singh Rathore 2. Dr. Preethi I 3. Prof. Dr. Khalid Ahmed Adharae 4. Dr. Shailesh Shivaji Deore 5. Rajendra Vasant Rao Patil 6. Dr. Jai Dev Gehja 7. Dr. Rohit Tiwari 8. Venkatesan S
TITLE OF INVENTION	AI-Powered Sentiment Analysis in IoT-Enabled Patient Emotion Monitoring Systems
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/01/2025

Mr. Venkatesan S

Assistant Professor, Department of Artificial Intelligence and Data Science

Mr. Venkatesan S, has recently published a patent **AI-Powered Sentiment Analysis in IoT-Enabled Patient Emotion Monitoring Systems**. This innovative work integrates Artificial Intelligence (AI) and the Internet of Things (IoT) to analyze patient emotions in real time, enhancing mental health assessment and personalized patient care. By leveraging sentiment analysis, this system aims to revolutionize healthcare monitoring and emotional well-being tracking.

Patent Details:

Patent Title: AI-Powered Sentiment Analysis in IoT-Enabled Patient Emotion Monitoring Systems.

Application Number: 202421097327

Date of Publication: 10/01/2025

STAFF ACHIEVEMENTS



Patent Publications



Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India		INTELLECTUAL PROPERTY INDIA
Application Details		
APPLICATION NUMBER	202441104792	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	31/12/2024	
APPLICANT NAME	1. Mrs. Subha J 2. Dr. M. Kowigan 3. Dr. M. Jayakumar K 4. R. Abrami 5. P. Leela 6. D. Suganthi 7. Priya Kalavani K	
TITLE OF INVENTION	AN INTELLIGENT FRAMEWORK FOR DEEP LEARNING- BASED WATER DEMAND PREDICTION IN SMART WATER DISTRIBUTION SYSTEM	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)		
ADDITIONAL E-MAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	--	
PUBLICATION DATE (U/S 11A)	17/01/2025	
Application Status		
APPLICATION STATUS	Awaiting Request for Examination	
View Documents		
<div>→ Filed → Published → RQ Filed → Under Examination → Disposed</div>		
In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in		

Mrs. Subha J

Assistant Professor, Department of Artificial Intelligence and Data Science

Mrs. Subha J, has recently published a patent *An Intelligent Framework for Deep Learning-Based Water Demand Prediction in Smart Water Distribution System*. This groundbreaking innovation leverages deep learning to enhance the efficiency of smart water distribution systems, ensuring accurate demand prediction and optimized resource allocation. Such advancements play a crucial role in sustainable water management and smart city infrastructure.

Patent Details:

Patent Title: An Intelligent Framework for Deep Learning-Based Water Demand Prediction in Smart Water Distribution System

Application Number: 202441104792

Date of Publication: 17/01/2025

STAFF ACHIEVEMENTS



Patent Publications



(12) PATENT APPLICATION PUBLICATION 419/INDIA	(21) Application No: 202401240360 A0
(22) Date of filing of Application: 23/12/2024	(43) Publication Date: 16/01/2025
(54) Title of the invention: MACHINE LEARNING-BASED NETWORK TRAFFIC OPTIMIZATION AND SECURITY ENHANCEMENT SYSTEM	
(51) International Classification H04L 43/08 (2006.01) H04L 29/06 (2006.01) H04L 29/08 (2006.01) H04L 29/12 (2006.01) H04L 29/14 (2006.01) H04L 29/18 (2006.01) H04L 29/20 (2006.01) H04L 29/22 (2006.01) H04L 29/24 (2006.01) H04L 29/26 (2006.01) H04L 29/28 (2006.01) H04L 29/30 (2006.01) H04L 29/32 (2006.01) H04L 29/34 (2006.01) H04L 29/36 (2006.01) H04L 29/38 (2006.01) H04L 29/40 (2006.01) H04L 29/42 (2006.01) H04L 29/44 (2006.01) H04L 29/46 (2006.01) H04L 29/48 (2006.01) H04L 29/50 (2006.01) H04L 29/52 (2006.01) H04L 29/54 (2006.01) H04L 29/56 (2006.01) H04L 29/58 (2006.01) H04L 29/60 (2006.01) H04L 29/62 (2006.01) H04L 29/64 (2006.01) H04L 29/66 (2006.01) H04L 29/68 (2006.01) H04L 29/70 (2006.01) H04L 29/72 (2006.01) H04L 29/74 (2006.01) H04L 29/76 (2006.01) H04L 29/78 (2006.01) H04L 29/80 (2006.01) H04L 29/82 (2006.01) H04L 29/84 (2006.01) H04L 29/86 (2006.01) H04L 29/88 (2006.01) H04L 29/90 (2006.01) H04L 29/92 (2006.01) H04L 29/94 (2006.01) H04L 29/96 (2006.01) H04L 29/98 (2006.01) 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Mrs. Varalakshmi K

Assistant Professor, Department of Artificial Intelligence and Data Science

Mrs. Varalakshmi K has recently published a patent **Machine Learning-Based Network Traffic Optimization and Security Enhancement System**. This pioneering innovation utilizes machine learning to optimize network traffic and enhance security measures, ensuring efficient data flow and robust protection in critical infrastructures. Such advancements play a crucial role in securing sensitive information and improving the reliability of modern digital networks.

Patent Details:

Patent Title: Machine Learning-Based Network Traffic Optimization and Security Enhancement System

Application Number: 202441101680 A

Date of Publication: 17/01/2025



STAFF ACHIEVEMENTS

Faculty Development Programme



Our faculty member, **Mrs. K. Gayathri**, from the Department of Artificial Intelligence and Data Science, successfully participated in and completed a **Faculty Development Program (FDP) on Microsoft Power BI**. The program was held from **January 27 to 31, 2025**, and was conducted by ICT Academy, hosted at Shri Shankarlal Sundarbhai Shasun Jain College for Women, T. Nagar, Chennai-17. This FDP provided her with valuable insights and skills in using Power BI, further enhancing her expertise in data analytics.



Our faculty member, **Mrs. A. Jenifus Selvarani**, from the Department of Artificial Intelligence and Data Science, successfully participated in and completed the **Intel Unnai Five Days FDP on Large Language Models**. The program took place from January 6th to 10th, 2025, hosted by **Sri Sai Ram Engineering College** and provided valuable insights into the advancements and applications of large language models. This FDP enhanced her knowledge and skills in the rapidly evolving field of artificial intelligence.

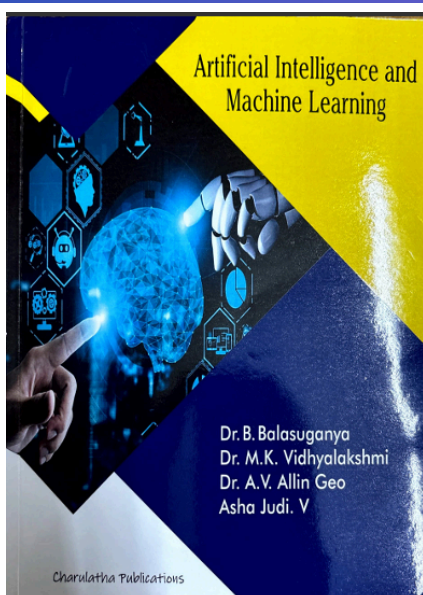


STAFF ACHIEVEMENTS

Faculty Development Programme



Our faculty members, **Dr. R. Priscilla** and **Mrs. P. Chitra**, from the Department of Artificial Intelligence and Data Science, successfully participated in and completed the **ATAL Faculty Development Program (FDP) on 6G Networks and Advanced Computing**. The program, which covered topics such as supercomputing, AI, quantum computing engineering, and management, was held at **Sathyabama University** from **January 20 to January 25, 2025**. Their participation in this FDP reflects their commitment to staying at the forefront of cutting-edge technologies and enhancing their expertise in emerging fields.



Our faculty member, **Dr. A. V. Allin Geo**, from the Department of Artificial Intelligence and Data Science, has recently published a book titled **“Artificial Intelligence and Machine Learning”** by **Charulatha Publications**. This book provides valuable insights into the concepts and applications of AI and ML, making it a useful resource for both students and professionals.

STAFF ACHIEVEMENTS



Paper Publications

Dr. R. Priscilla published a paper titled, "Enhancing IoT Security with Lightweight Cryptographic Operations using Temporal Spatial Hyperdimensional Computing" in the Journal of Information Systems Engineering and Management ISSN:2468-4376, 25/01/25

Mrs. J. Gold Beulah Patturose published a paper titled, "A High-Performance, Thin, Circularly Polarized Microstrip Antenna for Compact Radar Systems" in the Journal Progress In Electromagnetics Research (E-ISSN: 1559-8985), 11/01/2025

Mrs. R. Abirami Presented a paper titled, "Applications of Wireless Sensor Networks in the Health Care Sector" at IEEE Conference on Smart Technologies for Sustainable Development Goals Organized by S A Engineering College in association with IEEE Madras Section, IEEE Professional Communication Society, Madras, Chapter IEEE, Computer Society Madras



INDUSTRY INTERACTION




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Evolve Robot Innovation Lab

06/01/2025

EVOLVE ROBOT LAB is a robotics start-up company in Tamil Nadu, India. Headquarter in Chennai. Led by young Engineering team making affordable Robotics and Artificial Intelligence products and service for commercial and military applications.




Outcome of Interaction

- Establishing an MoU for collaborative AI projects with students
- Setting up an incubation center for innovation
- Offering internships to enhance student skills
- Focusing on student development in drone technology and robotics

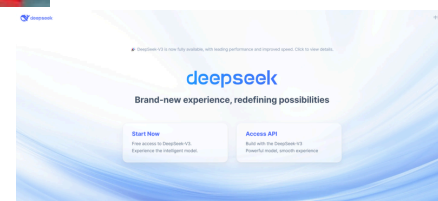
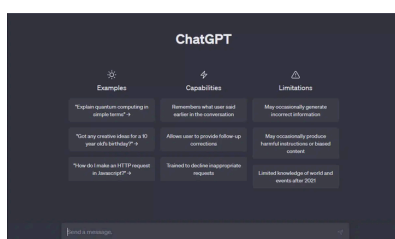
Praveen Pandiyan
Managing Director
Evolve Robot Lab


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The Choice of
Disciplined Toppers

Our faculty member, **Dr. A. V. Allin Geo**, from the Department of Artificial Intelligence and Data Science, visited the **Evolve Robot Lab** on **January 6, 2025**, and had the opportunity to meet **Praveen Pandiyan, Managing Director**. The outcome of this interaction was the establishment of an **MOU for collaborative AI projects**. The partnership will include setting up an **incubation center**, offering internships, and promoting student development in drone technology and robotics. This collaboration opens exciting avenues for research and industry engagement, providing valuable opportunities for students to gain hands-on experience in cutting-edge technologies.

EduTech Pioneers



PARAMETERS	DEEPSEEK	CHATGPT
Launch Date	2024	2021
Architecture	Mixture-of-Experts, 671B parameters	Dense Model, 1.8T parameters
Focus	Coding, reasoning, task specialization	Language generation, creativity, NLP
Open-Source	Yes	No
Training Efficiency	FP8 training, 30% less memory usage	Standard FP16
Cost	Lower cost, budget-friendly	Premium-priced
Applications	Coding, math, specialized business tasks	Flexible, creative content, language generation
Privacy Concerns	Follow Chinese data regulations	Sticks to OpenAI data standards
Censorship Risks	Potential for regulated outputs	Independent, regulation-free



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