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OMR, CHENNAI - 119

NEWSLETTER

JANUARY 2025
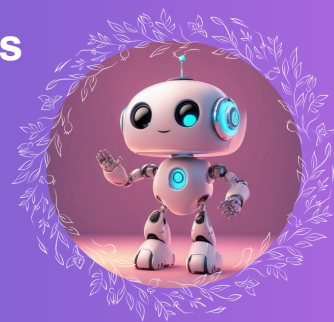
ISSUE 13

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

IMAGINE,INNOVATE,IGNITE WITH AI
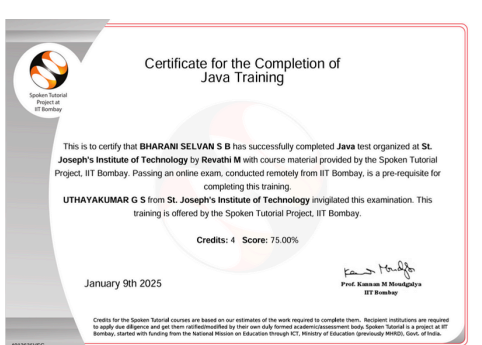
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STUDENT ACHIEVEMENTS

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.

>>> **NEWSLETTER**

STUDENT ACHIEVEMENTS

Certificate for the Completion of Java Training — This is to certify that **VISHWESHWAR R** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 85.00% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **AKSHAYASIDDHARTH P** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 82.50% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **DIWAKAR I** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 72.50% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **PREETHA S** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 82.50% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **MAGUVARSHINI M** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 92.50% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **AVINS V R** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 87.50% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **NANDHINI S** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 85.00% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **DARGIN VINO M** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 85.00% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

Certificate for the Completion of Java Training — This is to certify that **BHARANI SELVAN S B** has successfully completed **Java** test organized at **St. Joseph's Institute of Technology** by **Revathi M** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **UTHAYAKUMAR G S** from **St. Joseph's Institute of Technology** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay. Credits: 4 Score: 75.00% January 9th 2025 Prof. Kannan M Moudgalya IIT Bombay

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.

>>> **NEWSLETTER**

STUDENT ACHIEVEMENTS
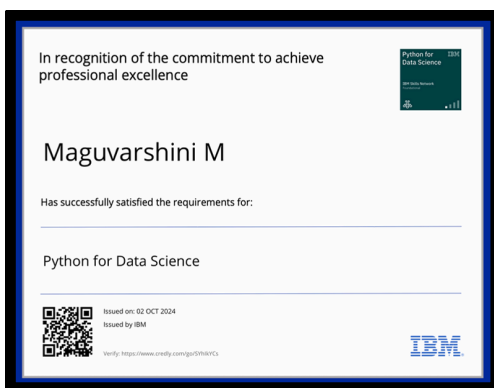
Students **Maguvarshini M, Vishweshwar, Jerish** from the Department of Artificial Intelligence and Data Science have successfully completed various **online courses from IBM, TCS iON and Udemy** enhancing their technical expertise. Additionally, they actively participated in the Global Freelancer Festival, 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.

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STUDENT ACHIEVEMENTS
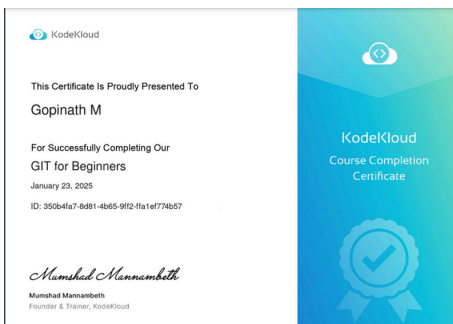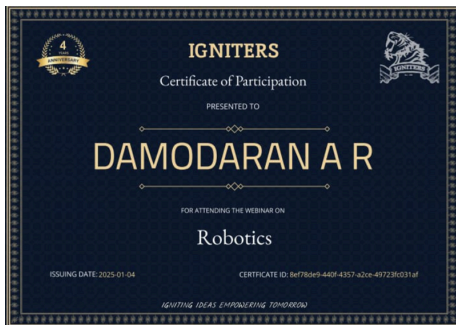
Students Damodaran A R, Aravindkumar Ponsingh S A, Gopinath, Gowri, Maguvarshini, Gopisetty Pardhavika G, Joshva D from the Department of Artificial Intelligence and Data Science have successfully completed courses from Coding Ninjas 360, Coursera, Cisco and KodeKloud, enhancing their technical skills. 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.

>>> **NEWSLETTER**

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!

>>> **NEWSLETTER**

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

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

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.

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AI COMMUNITY DAY

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.

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Student Paper Publication

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)

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.

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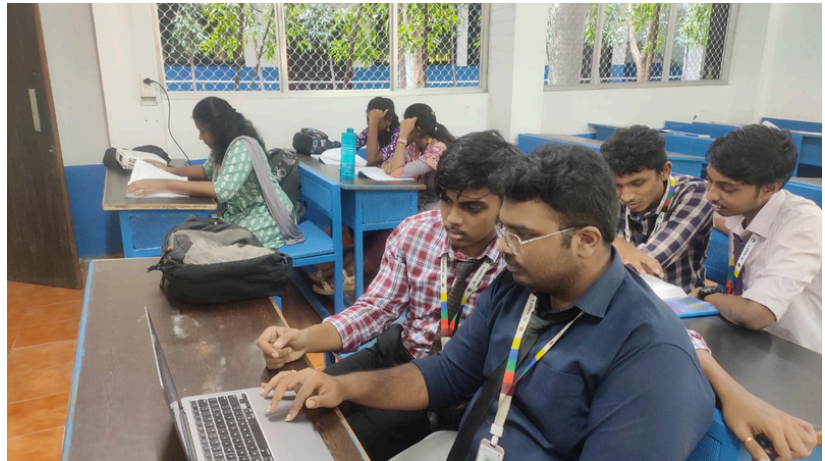
SEERA CLASSES

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.

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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.

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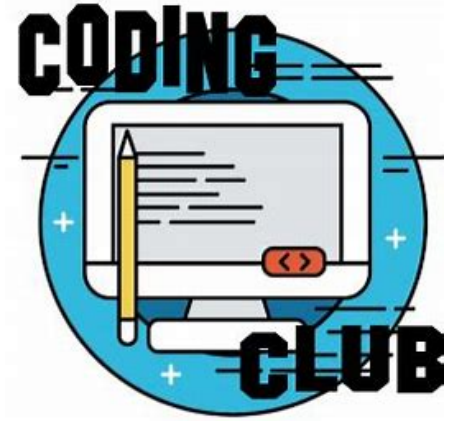
CLUB ACTIVITIES

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.

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NGO

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.

UmagineTN 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.

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CAREER CONNECT SESSION

The ADS Department recently hosted a Career Connect Session on January 28, 2025 with Mr. Rajkumar Madhuram, Co-Founder and CTO of C1X, 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. Madhuram 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.

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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

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!

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Class Toppers

St. JOSEPH'S INSTITUTE OF TECHNOLOGY
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

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

2022-2026 BATCH

Name	CGPA
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	8.56
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
ROHITHA R	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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Class Toppers

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

Name	ID	CGPA
SHERLEEN ANTHEA S	312423243164	9.39
SAARAH ZAYN	312423243146	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	312423243041	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	312423243141	8.77
SANCHANA ASMI B	312423243154	8.72
ADITHYA R	312423243008	8.72
HARIPRIYA S	312423243067	8.71
JISHA M E	312423243086	8.71
SHRINITHI MAHALAKSHMI R	312423243169	8.71
DERANGULA HANSIKA	312423243047	8.69
JESWANTH K	312423243082	8.68
PRITADHARSHINI M	312423243131	8.68
ANTONY RONALDO A	312423243023	8.65
MAHATHI SRI M R	312423243101	8.65
SABARISH S	312423243147	8.65
LAKSHMI PRADEEPA	312423243096	8.63
NARMATHA S	312423243117	8.63
NISHA BRITTOLIN X I	312423243120	8.63
ALEX ROHITH I	312423243017	8.61
MOHAMED AJMEER M	312423243108	8.61
RAMYA R	312423243137	8.61
SANDHIYA S	312423243155	8.62
THARSAN KANTHASWAMY	312423243183	8.6
AKSHAYA S	312423243014	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

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!

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STAFF ACHIEVEMENTS

Patent Publications

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.Shantha Sheela 6 . Dr.P.Sridevi 7 . Dr. D. Anita Daniel 8 . Mr. K. S. Senthil Kumar 9 . Ms.S.Yuvashree 10 . Mr.P.Vinoth 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-EMAIL (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

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**

Mr. P. Vinoth Kumar
Assistant Professor, Department of Artificial Intelligence and Data Science

Mr. P. Vinoth 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

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STAFF ACHIEVEMENTS

Patent Publications

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: 202441104960 A
Date of Publication: 17/01/2025

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STAFF ACHIEVEMENTS

Patent Publications

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

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STAFF ACHIEVEMENTS

Patent Publications

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

>>> NEWSLETTER

STAFF ACHIEVEMENTS

Patent Publications

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

>>> NEWSLETTER

STAFF ACHIEVEMENTS

Patent Publications

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

>>> NEWSLETTER

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 Sundarbai 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.
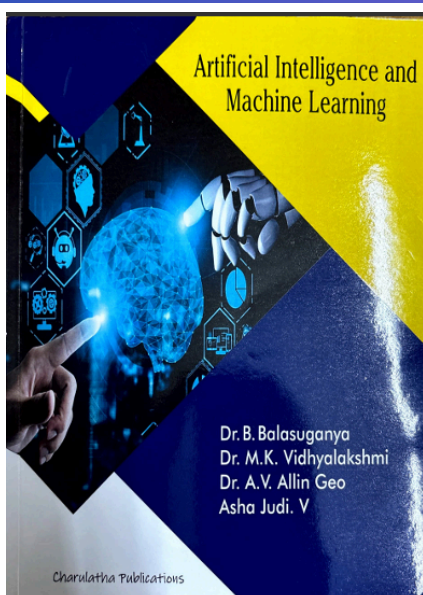
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STAFF ACHIEVEMENTS

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.

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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

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INDUSTRY INTERACTION

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.

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EduTech Pioneers
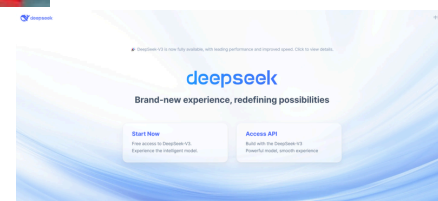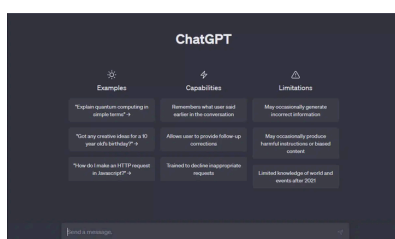
PARAMETERS	DEEPSEEK	CHATGPT
Launch Date	2024	2021
Architecture	Mixture-of-Experts, 671B parameters	Dense Model, 1.8T parameters
Focus	Coding, reasoning, task specialization	Language generation, creativity, NLP
Open-Source	Yes	No
Training Efficiency	FP8 training, 30% less memory usage	Standard FP16
Cost	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