

SCOPE BYTES

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About the School

History of computing discipline at VIT Chennai dates back to 2010, when the School of computer Science & Engineering was established to meet the demand for well-qualified computer professionals. Fast forward to today, and VIT is known to be one of the best colleges for computer engineering in Chennai. The mission of the School is to strive persistently for achieving excellence in computing disciplines. It is being pursued through its spectrum

of academic programs in computing of contemporary standards.

As one of the best engineering colleges for computer science, our main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving and solving problems. The aim is also to create Large Scale Software Systems and build

data/computing infrastructure for an organisation.

With an aim to carve a niche for itself in Computer Science and allied domains, the School strives to:

Produce graduates thoroughly acquainted with the principles of modern Computing Science who are able to apply the principles in the design and construction of reliable systems.

Equip students with the fundamental understanding and practical skills needed by the potential organisers of a demanding

profession.

Provide cost-effective Information and Communication Technology (ICT)-based solutions and value-added services to a variety of organisations and to meet the expectations of stakeholders.

Foster a learning and creative community that strives to continuously advance the frontiers of knowledge and promote the deployment and usage of ICT-based applications for betterment of society.

Vision &

Mission

Vision :

To be a world-renowned center of education, research and service in computing and its allied domains.

To offer education programs pertaining to computation such that the students become technically competent and develop lifelong learning skills.

To undertake ground-breaking research that creates new technologies and solutions for industries and the society on a larger scale.

To foster various outreach programs for industries, research organisations, academia and the society.

FACULTY

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THE

CORNER

**to educate & care with
experience & passion**

Dr. Ancy Michael and Dr. Deepika Roselind organized a 2-hour online guest lecture on 1st October 2024 with resource person Dr. Hanif Baharin, Head of the Advanced Reality & Human Computer Interaction Lab at the Institute of Visual Informatics, Universiti Kebangsaan Malaysia, on the title "Ethnography in HCI: Gathering User Requirements".

Dr. P. Sandhya organized a 2-hour online guest lecture on 2nd October 2024 with resource person Mahek Kantesaria, Software Engineer at TCS, Gandhinagar, Gujarat (Alumni), on the title "Collections in Java".

Dr. P. Sandhya organized a 2-hour online guest lecture on 2nd October 2024 with resource person Anik Bhoumick, Engineer at McKinsey & Company (Chennai, Alumni), on the title "Introduction to Docker & Kubernetes".

Dr. J. Priyadharshini and Dr. Renta Chinthala Bhargavi organized a 2-hour online guest lecture on 3rd October 2024 with resource person Mr. Balavenkatesh, Lead Application Developer at BMO Financial Group (Bank of Montreal), Canada, on the title "LLM models and its applications in Banking".

Dr. Sudharson S. organized a 2-hour online guest lecture on 3rd October 2024 with resource person Mr. Balaji Sriram, Technology Analyst at Infosys Limited, Chennai, on the title "From Backlog to Delivery: Optimizing Your Project Management Workflow using Software Tools".

Dr. A. Karmel D and Dr. V. Neelananarayanan organized a 2-hour online guest lecture on 4th October 2024 with resource person Mr. Rajkumar C, CTO, Agility Delivered India Private Limited, Chennai, on the title "Introduction to DevOps Security".

Dr. Sudharson S. and Dr. Kaviya Elakiya organized a 2-hour online guest lecture on 7th October 2024 with resource person Dr. Dhayalakumar M., Founder and CEO of Miester-Gen Technologies Pvt Ltd, on the title "Recent trends and applications of Python programming in an industry perspective".

Dr. Thomas Abraham organized a 2-hour online guest lecture on 7th October 2024 with resource person Mr. Srinivasan Rengarajan, Chief Technology Officer, Ongil.ai, Chennai, on the title "Reinforcement Learning and Q Learning".

Dr. Dhanalakshmi R. and Dr. Sahaya Beni Prathiba organized a 2-hour online guest lecture on 7th October 2024 with resource person Mr. Prasath Jeyasundhar, Offensive Security Engineer at PayPal, on the title "Dark Web and Computer Networks: The Invisible Link".

Dr. Braveen and Dr. Shola Usha Rani organized a 2-hour online guest lecture on 7th October 2024 with resource person Mr. Gopi Krishnan, Lead Engineer at Kone Elevators India Private Limited, Saligramam, on the title "Real time model for securing Computer Systems using Vaults - Hands-On".

Dr. Deepa Nivethika and Dr. A. Sudha organized a 2-hour online guest lecture on 8th October 2024 with resource person Ms. Kanmani Ramakrishnan, Cloud Engineer at HPE - Aruba, on the title "Industrial applications of Computer Networking - Use Cases".

Dr. B. Indira and Dr. J. Omana organized a 2-hour online guest lecture on 9th October 2024 with resource person Dr. Doreen Robin, Founder Director at Computational Intelligence Research Foundation, on the title, "NP - Hard and NP - Complete".

Dr. K. Tamilarasasi and Dr. G. Logeswari organized a 2-hour online guest lecture on 9th October 2024 with resource person Ms. V. A. Prabha, Scientist- E, CDAC, Chennai- 600113, on the title "Building a Secure AWS Infrastructure: Cryptographic Best Practices".

Dr. K. Pradeep organized a 2-hour guest lecture on 9th October with resource person Mr. E. Mahendran, Joint Director, Center for Development of Advanced Computing(CDAC), Chennai, on the title, "Insight of AWS".

Dr. Shola Usharani and Dr. R. Gayathri organized a 2-hour online guest lecture on 9th October 2024 with resource person Mr. Avinash Gunti, Systems & Infrastructure Engineer at Walmart Global Tech India, RMZ Millenia Biz Park, Perungudi, on the title "Basic Fundamentals for Google Cloud Platform with SQL data instances and hands-on Data Proc tool".

Dr. M. Arthi and Dr. M. Sharmila Devi organized a 2-hour online guest lecture on 10th October 2024 with resource person Mr. Aravindanne S, Lead Software Engineer at Freshworks Inc., CRM Marketing Suite, Chennai, Tamil Nadu, on the title "The Intersection of HCI and UX Design: Crafting Intuitive Digital Experiences".

Dr. Parkavi and Dr. Pandiyaraju V. organized a 2-hour online guest lecture on 10th October 2024 with resource person Mr. Ferdin Joe, Architect-Training Advisor at Alibaba Cloud Singapore, on the title "Dive into Generative AI using Alibaba Cloud".

Dr. D. Kavitha and Dr. A. Sherly organized a 2-hour online guest lecture on 19th October 2024 with resource person Dr. Deepa, Infosys springboard, Trivandrum, on the title "Azure Services".

Dr. Jenila Livingston and Dr. S. Rajkumar organized a 2-hour online guest lecture on 22nd October 2024 with resource person Mr. Narendran V Assistant Consultant, (TCS) Tata Consultancy Services (P) Ltd (2019-Till Date), London, United Kingdom, on the title "Applications of Java Programming from an Industry Perspective".

Dr. M. Aravind Kumar organized a 2-hour online guest lecture on 23rd October 2024 with resource person Mr. THAMARAISELVAM S, Zoho Corporation Private Limited, Estancia IT Park located at Guduvancherry., on the title "Unlocking Potential: The Critical Role of Data Structures in IT".

Dr. Jeipratha P. N and Dr. M. Raja organized a 2-hour online guest lecture on 23rd October 2024 with resource person Dr. Doreen Robin, Founder Director at Computational Intelligence Research Foundation, on the title "NP - Hard and NP-Complete".

Dr. A. Vijayalakshmi and Dr. R. D. Suganya organized a 2-hour online guest lecture on 23rd October 2024 with resource person Prof. Viraj Kumar, Visiting Chair Professor at EECS, IISc, Bangalore, on the title "Python List Implementation and its Time Complexity Analysis".

Dr. Palani Thanaraj and Dr. B. Natarajan organized a 2-hour online guest lecture on 23rd October 2024 with resource person Dr. Priyanka Kokil, Associate Professor at IIITDM, Kancheepuram, on the title "Contemporary Issues in Image Processing and Computer Vision".

Dr. M. Vidhyalakshmi and Dr. Linda Joseph organized a 2-hour online guest lecture on 24th October 2024 with resource person Mr. Vishal Kumar Maurya, Software Architect at ESS - Engineering Software Steyr, Austria, on the title "Multicore Architectures for Smooth UI".

Dr. M. Marimuthu and Dr. K. Lekshmi organized a 2-hour online guest lecture on 24th October 2024 with resource person Mr. Viruchith Ganesan, Software Development Engineer at Lumen Technologies, Bengaluru, on the title "Advanced Java Programming".

Dr. P. Rukmani and Dr. Vergin Raja Sarobin organised a 2-hour online guest lecture on 24th October 2024 with resource person Mr. Venkatrangan Govindarajan, Senior System Software Engineer (Network) at NVIDIA, Chennai, on the title "Introduction to Software Defined Networking Architecture, Protocols, and Future".

Dr. Indra Priyadharshini and Dr. T. Rajasree organised a 2-hour online guest lecture on 25th October 2024 with resource person Mr. Bauski, Senior Member Technical at ADP India, Hyderabad, on the title "Insights on AWS Cloud".



BAHWAN CYBER TEK visit took place on 24th October 2024.



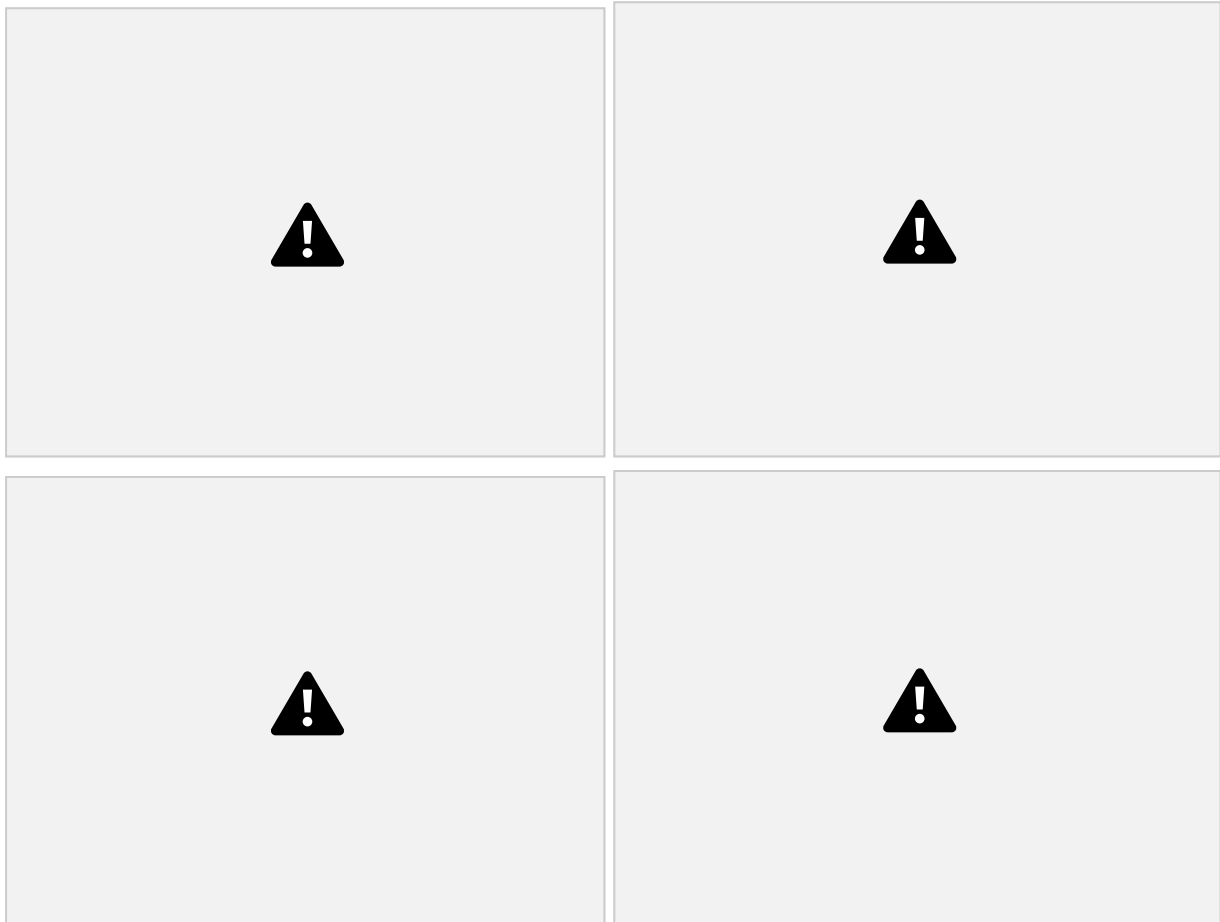
G K Santhosh Ram published his work titled “Visistant: A Conversational Chatbot for Natural Language to Visualizations With Gemini Large Language Models” in IEEE Access as the outcome of his Capstone Project in Winter Semester 2024, under the guidance of Dr V. Muthumanikandan.

Raina Saxena, Sai Sahiti Rachiraju & Shashvi Shah published his work titled “State of-the-Art of Voice Assistance Technology, Mitigating Replay Attacks: A Comprehensive Discussion” in IEEE Access as the outcome of their Capstone Project in Winter Semester 2024, under the guidance of Dr. S. Sandosh

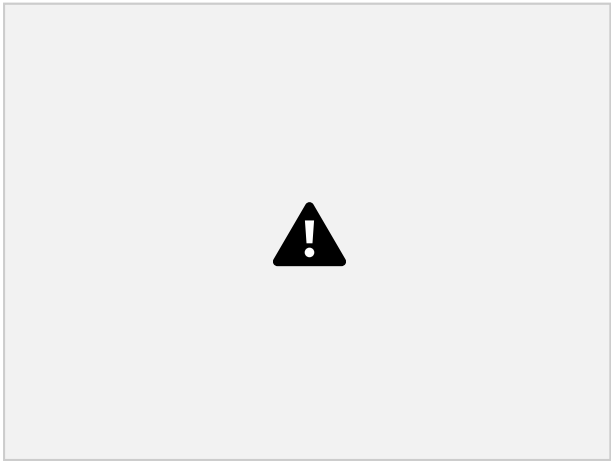
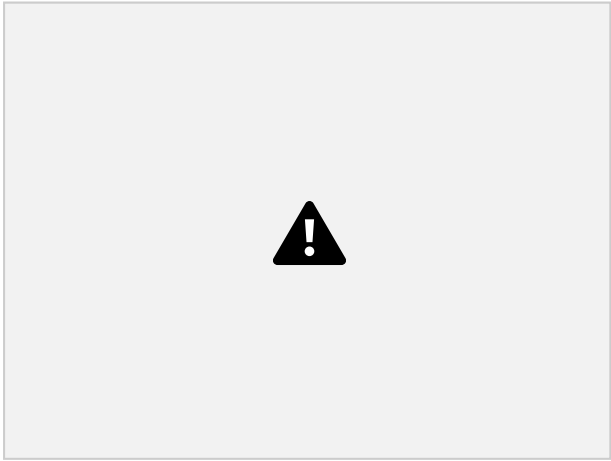
Mr. Pratik GK, Dr. T. Subbulakshmi & Dr. D. Malathi successfully inaugurated Cyber Security Month on 9th October 2024.



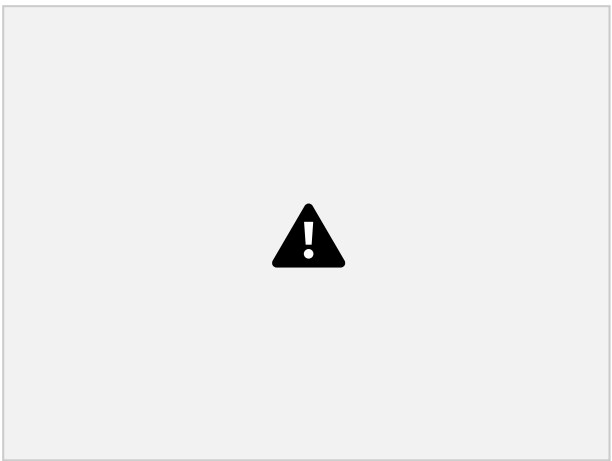
Dr. Indra Priyadharshini S., Dr. Padmavathy T. V. and Dr. Rajasree T. organised a social outreach visit to Rural Primary Government Aided School in Ponmar, Chennai on 08.10.2024.







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Dr. K. Tamilarasi and Dr. S. Pavithra organised a social outreach visit to Kalaimagal Matriculation Higher Secondary School in Tirumullaivayal, Chennai on 08.10.2024.





Dr. Kumaran K and Dr. Saranya G organised a social outreach visit to Mahalakshmi Matriculation Higher Secondary School, Karayanchavadi, Poonamalle, Chennai on 29.10.2024.



CSR

Dr. Indra Priyadharshini S, Dr. Padmavathi T V, and Dr. Rajasree T visited the Rural Primary Government Aided School in Ponmar on 8th October 2024.

Dr. K. Tamilarasi and Dr. S. Pavithra visited Kalaimagal Higher Secondary School, Ambattur, on 9th October 2024.

Dr. K. Kumaran and Dr. G. Saranya visited Mahalakshmi Matriculation Higher Secondary School, Karayanchavadi, Poonamallee, Chennai - 56, on 29th October 2024.

Industrial Visit

On 3rd October 2024, an industrial visit to the ICMR National Institute for Research in Tuberculosis (NIRT), Chetpet, Chennai, Tamil Nadu, was coordinated by Dr. Manikandan P and Dr. R. Rajakumar.

On 4th October 2024, an industrial visit to Congruent Solutions Private Limited at SIDCO Industrial Estate, Guindy, was coordinated by Dr. Krithiga R and Dr. Nathezhtha T. On 4th October 2024, an industrial visit to the Madras Atomic Power Station, Kalpakkam, was coordinated by Dr. Suvidha Rupesh Kumar.

FDP

Dr. Sajidha and Dr. A. Sheikh Abdullah organized a 5-day Faculty Development Program (FDP) titled "Technologies to Augment a Large Language" from 14th October 2024 to 18th October 2024, as part of the Fall 2024-2025 academic term, conducted online.

Dr. K. Kumaran and Dr. G. Saranya conducted a 5-day Faculty Development Program (FDP) titled "Innovative Approaches in Computing Technologies and Internet of Things" from 21st October 2024 to 25th October 2024, during the Fall 2024-2025 academic term, hosted online.

Workshop Organized

Prof. Jai Vinita and Prof. Hemalatha organized a one-day workshop titled "IoT & Data Analytics" on 1st October 2024, as part of the Fall 2024-2025 academic term, held at the VOC Auditorium, VIT Chennai.

Dr. Premanand V and Dr. Kaviya Elakiya conducted a one-day workshop titled "AICTE SANKALP Awareness Workshop on High Performance Computing (HPC)" on 24th October 2024, during the Fall 2024-2025 academic term, held at the Nethaji Auditorium, VIT Chennai.

Vellore Institute of Technology, Chennai and Multi-Dimensional Technologies, Karnataka signed a Memorandum of Understanding on 21.10.2024 with Dr. Aravindkumar S. as the representative for a period of 2 years.

Vellore Institute of Technology, Chennai and Oceanic Fitness Pvt Ltd signed a Memorandum of Understanding on 01.10.2024 with Dr. Edward Jero as the representative for a period of 5 years

Vellore Institute of Technology, Chennai and SocialEagle Pvt Ltd, Chennai signed a Memorandum of Understanding on 29.10.2024 with Dr. R. Kanniga Devi, Dr. M. Asha Jerlin, and Dr. S. Nachiyappan as representatives for a period of 3 years.

A MOU was signed between VIT Chennai and SocialEagle Pvt Ltd on 29th October 2024 in presence of Dr. Aravindkumar S., Dr. R. Kanniga Devi, Dr. M. Asha Jerlin and Dr. S. Nachiyappan.







EXTENDING

OUR FAMILY

Newbies in SCOPE...



Dr. Sivaranjani N

ASSISTANT PROFESSOR
SENIOR GRADE 1

BOS, Promotional Activity Organized, Thon Events

Organizations Interacted

On 23rd and 24th October, SKF Bearings and SpoRIC collaborated for an industry collaboration project in Bangalore organized by Dr. Jagatheeswaran, Mr. Vimalprasanth C.S., Dr. Sivakumar R., Dr. Abirami, and Dr. Rajakumar.

BOS

Dr. R. Ganesan convened an online Board of Studies meeting on 28th October 2024. The meeting was scheduled for the following programs: M.Tech CSE Integrated with Business Analytics, B.Tech Computer Science and Engineering with a specialization in Cyber-Physical Systems, B.Tech Computer Science and Engineering, B.Tech Computer Science and Engineering (AI & Robotics), and Online MCA.

Promotional Activity Organized

Dr. N. Ganesh organized a two-day promotional activity workshop titled "Design and Development of Sanskrit Chatbot for Enhancing Language Fluency" on 21st and 22nd October 2024, as part of the Fall 2024-2025 academic term, held at AB3-201, VIT Chennai.

Thon Events

Dr. K. Vallidevi organized a one-day Thon event titled "BIS Aware-a-thon" on 27th October 2024, as part of the Fall 2024-2025 academic term, held at VIT Chennai.

Nair M.M., Sriraman H., Sai G.H., and Pattabiraman V. published DroneSilient (drone + resilient): an anti drone system in the Journal of Big Data, with an impact factor of 8.6.

Anbarasi L.J., Jawahar M., Jayakumari R.B., Narendra M., Ravi V., and Neeraja R. published An overview of current developments and methods for identifying diabetic foot ulcers: A survey in Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, with an impact factor of 6.4.

Thendral M.S., Abinaya S., and Devi M.K.K. published Enhanced prediction of agricultural CO2 emission using ensemble machine learning-based imputation approach in Neural Computing and Applications, with an impact factor of 4.5.

Manikandan S., Elakiya E., Rajheshwari K.C., and Sivakumar K. published Efficient energy consumption in hybrid cloud environment using adaptive backtracking virtual machine consolidation in Scientific Reports, with an impact factor of 3.8.

Kanthimathi S., Venkatraman S., Jayasankar K.S., Pranay Jiljith T., and Jashwanth R. published A Novel Self-Attention-Enabled Weighted Ensemble-Based Convolutional Neural Network Framework for Distributed Denial of Service Attack Classification in IEEE Access, with an impact factor of 3.4.

Gabriel J.J. and Jani Anbarasi L. published Accurate Cardiovascular Disease Prediction: Leveraging Opt-hpLGBM With Dual-Tier Feature Selection in IEEE Access, with an impact factor of 3.4.

Chauhan A. published A 1.5-Approximation for Symmetric Euclidean Open Loop TSP in IEEE Access, with an impact factor of 3.4.

Ram S. and Muthumanikandan V. published Visistant: A Conversational Chatbot for Natural Language to Visualizations With Gemini Large Language Models in IEEE Access, with an impact factor of 3.4.

Kanthimathi S. published Exploring Machine Learning Algorithms for Malicious Node Detection Using Cluster-Based Trust Entropy in IEEE Access, with an impact factor of 3.4.

Priya S., Radha R., Anandha Prakash P., and Nandhini R. published Optimizing the Selection of Intermediate Charging Stations in EV Routing Through Neuro-Fuzzy Logic in IEEE Access, with an impact factor of 3.4.

Thenmozhi R., Shridevi S., Mohanty S.N., García-Díaz V., Gupta D., Tiwari P., and Shorfuzzaman M. published Attribute-Based Adaptive Homomorphic Encryption for Big Data Security in Big Data, with an impact factor of 2.6.

Ahmed R. and Sridevi S. published Quantum space-efficient large language models for Prolog query translation in Quantum Information Processing, with an impact factor of 2.2.

Kumar C.O., Gajendran S., Marappan S., Zakariah M., and Almazyad A.S. published A Secure Framework for WSN-IoT Using Deep Learning for Enhanced Intrusion Detection in Computers, Materials and Continua, with an impact factor of 2.

Sajithra N., Ramyachitra D., and Manikandan P. published Sequence-Order Frequency Matrix–Sampling and Machine Learning with Smith–Waterman (SOFM–SMSW) for Protein Remote Homology Detection in Wireless Personal Communications, with an impact factor of 1.9.

Prakash B. and Saleena B. published Stock Market Prediction Using Deep Attention Bi directional Long Short-Term Memory in Computational Economics, with an impact factor of 1.9.

Kalaivaani P.C.D., Sathyarajasekaran K., Krishnamoorthy N., and Kumaravel T. published Hybrid HAN-CNN with aspect term extraction for sentiment analysis using product review in Computational Intelligence, with an impact factor of 1.8.

Shiny Irene D., Indra Priyadharshini S., Ponnuviji N.P., and Kalaivani A. published Technological Advancements in Menstrual Health: The Role of Generative Pre-Trained Transformer and Bees Algorithm in IETE Journal of Research, with an impact factor of 1.3.

Arun D.R., Columbus C.C., Bhuvanesh A., and Sumithra A.S. published SMART CROWD MONITORING SYSTEM USING IOT-BASED YOLO-GHOST in Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique, with an impact factor of 1.

Sarobin M.V.R., Rathore J., Mishra R., Moolya V.V., and Seth Y. introduced “Uncovering the Hidden Patterns of the COVID-19 Global Pandemic: An In-Depth Data Analytics Approach,” published in SN Computer Science.

Rammohan C., Qubeb S.M.P., Nithya Darsini P.S., Saikiran N., Dasari K., and Kumar K.V. presented “NavigAId: A Deep Learning Framework for Real-Time Traffic Sign Interpretation with Multi-Sensor Fusion,” published in SSRG International Journal of Electronics and Communication Engineering.

John Deva Prasanna D.S., Punitha K., Naga Raju M., Rahman F., and Yadav K.K. introduced “An Artificial Intelligence-Based, Big Data-Aware, Long-Lasting Security Solution for the Internet of Things,” published in the Journal of Internet Services and Information Security.

Prasanna D.S.J.D., Punitha K., Shrividya G., Haval A.M., and Vij P. introduced “An Optimized and Cost-Effective Resource Management Model for Multi-Tier 5G Wireless Mobile Networks,” published in the Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications.

Palivela L.H., Vivekanandan D., Chinniah P., Kiranbabu M.N.V., Panneer Dhas L., Srivastava P., and Anantraj I. introduced “Revolutionizing AI Decision-Making with Hybrid Rule-Based Systems: A Novel Framework for Transparent and Accurate Outcomes,” published in Communications on Applied Nonlinear Analysis.

Tiwary I., Umamaheshwari S., Jayashri P., (2024) "Neuro-Statistical Analysis for ADHD Detection," AIP Conference Proceedings, Vol:3242, Issue:1, DOI: 10.1063/5.0234324.

Micheal A. A., Gupta K., Singh R., Singh V., Mohanty B., (2024) "HBTrackr: AI-Based Heart Attack Prediction through ECG Monitoring on Wearable Devices," 1st International Conference on Pioneering Developments in Computer Science and Digital Technologies, IC2SDT 2024 - Proceedings, Pg. No: 557-562, DOI: 10.1109/IC2SDT62152.2024.10696496.

Prakash R., Pandey T. N., Dash B. B., Patra S. S., De U. C., Tripathy A., (2024) "Skin Cancer Diagnosis using Deep Learning, Transfer Learning, and Hybrid Model," Proceedings - 2024 2nd International Conference on Inventive Computing and Informatics, ICICI 2024, Pg. No: 90-95, DOI: 10.1109/ICICI62254.2024.00024.

Tamilarasi K., Pavithra S., Rangarajan R., Venkataraman V., Krithik Shankar P., (2024) "AI Powered Optimization: Revolutionizing 6G Networks for Efficiency and Performance," 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024, DOI: 10.1109/ICSTSN61422.2024.10670928.

Harshini B. V., Ulagarchana U., Mounika P., Mary Shamala L., (2024) "Implementing OTP Verification and Zero Trust Security for Role-Based Access Control in Medical Records," 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024, DOI: 10.1109/ICSTSN61422.2024.10671108.

Renugadevi P., Sudha A., Srimathi R., (2024) "A Case Study for Standalone Solar Power Modules with and Without IoT Devices in Rural Hospital Emergency Rooms Located in Kaniyambadi," INTELEC, International Telecommunications Energy Conference (Proceedings), DOI: 10.1109/INTELEC60315.2024.10679025.

Bhoji S., Pandey T. N., Dash B. B., Satpathy R., De U. C., Patra S. S., (2024) "Performance Analysis of Classifiers in Predicting Car Insurance Claim," 8th International Conference on Inventive Systems and Control, ICISC 2024, Pg. No: 33-38, DOI: 10.1109/ICISC62624.2024.00013.

Priyanka S., Selvam P., (2024) "Enhancing Ophthalmic Diagnostics: A New Horizon for OCT Retinal Analysis," Asia Pacific Conference on Innovation in Technology, APCIT 2024, DOI: 10.1109/APCIT62007.2024.10673608.

Saranyaraj D., Maheswari A. U., (2024) "Design and Analysis of an Octagonal Chipless RFID System," Asia Pacific Conference on Innovation in Technology, APCIT 2024, DOI: 10.1109/APCIT62007.2024.10673482.

Kanthimathi S., Verghese M. A., Pamidimokkala S., (2024) "Periodic Integration: A Differential Approach to Merkle Tree Configuration," Proceedings of CONECCT 2024 - 10th IEEE International Conference on Electronics, Computing and Communication Technologies, DOI: 10.1109/CONECCT62155.2024.10677225.

Kumar M. R., Priyanga S., Anusha J. S., Chatiyode V., Santiago J., Chaudhary D., (2024) "Enhancing Telecommunications Customer Retention: A Deep Learning Approach Using LSTM for Predictive Churn Analysis," 2nd IEEE International Conference on Data Science and Network Security, ICDSNS 2024, DOI: 10.1109/ICDSNS62112.2024.10691038.

Yuthish Kumar V., Goutham S., Ir P. J., (2024) "Integrative Framework for Heart Failure Risk Assessment and Tailored Mitigation Strategies," 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024, DOI: 10.1109/ICSTSN61422.2024.10671374.

Manivannan K., Vivekanandan M., Saranya G., Kumaran K., (2024) "Enhanced Secure Communication in Wireless Sensor Networks: Quantum Key Distribution with KIRSAN Gate," 5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings, Pg. No: 734-740, DOI: 10.1109/ICESC60852.2024.10689791.

Gajendran S., Arunarani A.R., Nair A.R., Logeswari G., Elakkiya R., (2024) "A Novel Approach of Disease Diagnostic Prediction Using SMOTE Ensemble Classification," Communications in Computer and Information Science, Vol:2177 CCIS, Pg. No: 281-291, DOI: 10.1007/978-3-031-68908-6_23.

Prasanna Kumar M., Veeramani K., (2024) "Harnessing Advanced Learning for Sarcasm Detection," 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024, DOI: 10.1109/ICSTSN61422.2024.10671235.

Pavan Kumar S., Shriyans A., Rajkumar A.N., Hariharan S., Kanthimathi S., (2024) "Improving Intrusion Detection System by Utilizing Stacking Based Convolutional Neural Network Ensemble Classifier," Proceedings of CONECCT 2024 - 10th IEEE International Conference on Electronics, Computing and Communication Technologies, DOI: 10.1109/CONECCT62155.2024.10677096.

Mahato S., Saranyaraj D., (2024) "Predictive Healthcare with Integrated EEG and Facial Emotion Recognition using Deep Learning and Transfer Learning," Asia Pacific Conference on Innovation in Technology, APCIT 2024, DOI: 10.1109/APCIT62007.2024.10673446.

Ranjan S., Pandey T.N., Bhusan Dash B., Mishra M.R., Chandra De U., Patra S.S., (2024) "Performance Assessment of Various Machine Learning Algorithms in Recommendation," 2nd International Conference on Inventive Computing and Informatics, ICICI 2024, Pg. No: 292-297, DOI: 10.1109/ICICI62254.2024.00055.

Pavithra S., Tamilarasi K., Shashidhar S., Shahzil M., (2024) "Developing an Advanced Skin Disease Detection System by Integrating Hybrid Neural Network with Yolo V8 Model," 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024, DOI: 10.1109/ICSTSN61422.2024.10671324.

Kalemullah A.M., Prakash P., Sakthivel V., (2024) "Deepfake Classification for Human Faces using Custom CNN," Proceedings of International Conference on Circuit Power and Computing Technologies, ICCPCT 2024, Pg. No: 744-750, DOI: 10.1109/ICCPCT61902.2024.10672973.

Godbin A.B., Jasmine S.G., (2024) "Pediatric Pneumonia Detection in Chest X-ray Images: A Deep Feature Analysis Approach Enhanced with LightGBM," Proceedings of CONECCT 2024 - 10th IEEE International Conference on Electronics, Computing and Communication Technologies, DOI: 10.1109/CONECCT62155.2024.10677083.

Lakshmi M.V., Siva Priya M.S., Manivannan K., Vivekanandan M., (2024) "Real-Time Implementation of an Automated Student Attendance Monitoring System with Computer Vision Technology," 5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings, Pg. No: 1651-1654, DOI: 10.1109/ICESC60852.2024.10689967.

Kumar S., Deepa B., Kavitha T., Tamilselvi M., Sathiyapriya V., Natarajan B., (2024) "A Novel Approach for Sign Language Video Generation Using Deep Networks," 2nd IEEE International Conference on Data Science and Network Security, ICDSNS 2024, DOI: 10.1109/ICDSNS62112.2024.10691162.

Sahaaya Arul Mary S.A., Pandey A.K., Jha A., Sharma K., Shohel M., Natarajan B., (2024) "Crafting Captivating Narratives: Enhancing Image Captioning Through Encoder-Decoder Architectures," 2nd IEEE International Conference on Data Science and Network Security, ICDSNS 2024, DOI: 10.1109/ICDSNS62112.2024.10691137.

Siva Priya M.S., Manivannan K., Vivekanandan M., Saranya G., (2024) "Lung Cancer Classification and Localization Model using DTCWT and ANN-BPN," 5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings, Pg. No: 1665-1673, DOI: 10.1109/ICESC60852.2024.10689844.

Niha K., Surendiran B., Amutha S., (2024) "Biomedical Data Management and Analytics in IOMT," Lecture Notes in Networks and Systems, Vol:998 LNNS, Pg. No: 427-441, DOI: 10.1007/978-981-97-3245-6_29.

Raja G., Alhakami H., Prathiba S.B., N. Eedhidevan J.E., Vasudevan P., Subramanian R., Dev K., (2024) "PointGAN: A Catalyst for Enhanced Vulnerable Road User Detection in Autonomous Navigation," IEEE Vehicular Technology Conference, DOI: 10.1109/VTC2024-Spring62846.2024.10683061.

Ram K.S.R., Selvaganapathy M., Nandhini I., Tamilselvi M., Kalaivani M., Natarajan B., (2024) "Enhanced Investment Decision Making with a Reinforcement Learning-Based Multi-Agent Portfolio Management System," 2nd IEEE International Conference on Data Science and Network Security, ICDSNS 2024, DOI: 10.1109/ICDSNS62112.2024.10691210.

Ashokkumar N., Yatam N.R., Chandra I., Anita Christaline J., Bhairavi R., Thiruveni M., (2024) "Internet of Medical Things (IoMT): Opportunities and Security Challenges," 5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings, Pg. No: 370-376, DOI: 10.1109/ICESC60852.2024.10689770.

Dr. Parvathi R. submitted a project proposal to India Sri Lanka Joint Call for Workshop Proposal for an intended project duration of 5 months.

Dr. Kaviya Elakkiya M. submitted a project proposal to DST for an intended project duration of 1 month.

Dr. Prakash P. submitted a project proposal to DST with Dr. Roshan G. Ragel (Computer Science and Engineering) and Dr. V. Sakthivel (SCOPE) as co-investors for an intended project duration of 5 months.

Dr. A. Sheik Abdullah submitted a project proposal to DST with Dr. Geetha S. (SCOPE) as a co investor for an intended project duration of 1 month.

Dr. Abirami S. submitted a project proposal to ICSSR with Dr. Sivakumar R. (SMEC), Dr. Sakthivel G. (SMEC), and Dr. Abinaya S. (SCOPE) as co-investors for an intended project duration of 12 months.

Dr. Ganesh N. submitted a project proposal to DST with Dr. Geetha S. (SCOPE) as a co-investor for an intended project duration of 1 month.

Dr. Kaviya Elakkiya M. submitted a project proposal to TNSCST for an intended project duration of 1 month.

Dr. Aravind C. K. submitted a project proposal to ICSSR with Dr. Sreedevi V. T. (CSGT), Dr. Christopher Columbus C. (SCOPE), and Dr. Suvidha Rupesh Kumar (SCOPE) as co-investors for an intended project duration of 12 months.

Dr. Logesh R. submitted a project proposal to ICSSR with Dr. Subramaniaswamy V. (SCOPE) and Dr. Malathi D. (SCOPE) as co-investors for an intended project duration of 12 months.

Dr. Shridevi S. submitted a project proposal to ICSSR for an intended project duration of 24 months.

Dr. T. Raja Sree submitted a project proposal to Indian Council of Social Science Research with Dr. R. Vidya (District Mental Health Programme, Chengalpattu, Tambaram), Indra Priyadharshini (SCOPE), and Mary Shamala L. (SCOPE) as co-investors for an intended project duration of 24 months.

Dr. Brindha submitted a project proposal to ANRF: Prime Minister Early Career Research Grant for an intended project duration of 36 months.

Dr. Indra Priyadharshini submitted a project proposal to Indian Council of Social Science Research with Dr. Rani S. (Government PHC, Tindivanam) and Dr. T. Raja Sree (SCOPE) as co-investors for an intended project duration of 12 months.

Dr. Kaviya Elakkiya M. submitted a project proposal to TNSCST for an intended project duration of 1 month.

Dr. Tamilarasi K. submitted a project proposal to the Rare Disease Research Grant Initiative Fund for Rare – Chiesi Global Rare Diseases with Dr. Deepa Bhat (Department of Anatomy), Dr. V. N. Manjunath Aradhya (Department of Computer Applications), Dr. Akila Prashant (JSS Medical College), Dr. Ganesan R. (SCOPE), and Dr. Logeswari G. (SCOPE) as co-investors for an intended project duration of 24 months.

Dr. Parvathy A. K. submitted a project proposal to DST with Dr. Johannes Schmidt (Institute for Sustainable Economic Development, BOKU University, Austria) and Dr. Sakthivel R. (SCOPE) as co-investors for an intended project duration of 24 months.

Dr. Malathi D. submitted a project proposal to ICSSR with Dr. Subramaniaswamy V. (School of Computer Science and Engineering) and Dr. Logesh R. (CADS) as co-investors for an intended project duration of 12 months.

Dr. D. Jeya Mala submitted a project proposal to ICSSR from SCOPE.

C o n s u l t a n c y

Dr. Manavalla Sreekanth, Dr. Geetha S., and Dr. Feroskhan M. have been granted consultancy work on “GUI-Based Software Development for Modelling Rankine Thermal Power Cycle” with the consulting agency Bodh Solutions. The total amount received, including GST, was ₹35,400.

Dr. Manavalla Sreekanth, Dr. M. Feroskhan (SMEC), Dr. Abhishek Rudra Pal (SMEC), and Dr. S. Geetha (SCOPE) have been granted consultancy work on “Services to Develop a Tool Based on First Principles and Data-Driven Approach for Online Estimation of Coal Moisture and Gross Calorific Value in Pulverized Mills” with the consulting agency Kalki Communication Technologies Pvt. Ltd., Bangalore. The total amount received, including GST, was ₹1,06,200.

Dr. Praveen Joe I. R. and Dr. R. Jayanthi have been granted consultancy work on “Nidra – Sleep Easy (An App for Autistic Children)” with the consulting agency NIDRA-N3 Limited, London. The total amount received, including GST, was ₹1,50,000.

Dr. Jegadeeshwaran, Dr. Rajakumar, Dr. Vijayaprabhakaran, Dr. Sakthivel, Dr. Sivakumar, and Co-Ordinator Mr. Vimalprasanth have been granted consultancy work on “Quality Inspection Automation in Assembly Line” with the consulting agency TAFE Tractors and Farm Equipment Ltd. The total amount received, including GST, was ₹6,49,000.

Dr. ANITA CHRISTALINE J., Dr. N. PREM SANKAR and PRADHEEP J. from SCOPE applied for a patent on the title “AUTONOMOUS ROBOT FOR FLOOR CLEANING”, with patent application number 202441073502. The patent was filed on 28th September 2024 and was published on 4th October 2024.

Dr. K. KABILAN, Dr. PANDIYARAJU V., Dr. GEETHA S., JOEL GIBI, VIGNESH KARTHIKEYAN, and RAMANATHAN SAGAR from SCOPE applied for a patent titled “SYSTEM, DEVICE AND METHOD FOR MAINTAINING OPTIMAL CONDITIONS FOR FOOTWEAR BY ANALYSING REAL-TIME DATA”, with patent application number 202441074038. The patent was filed on 28th September 2024 and published on 4th October 2024.

PANKAJ SHUKLA(SAS), TRILOK NATH PANDEY(SCOPE), MANAS RANJAN PRUSTY(CCPS), NIBHA KUMARI MISHRA(SCHOLAR), YASHASHVI RAI, UTKARSH KEDIA, SOHIL AGARWAL, and KASHISH MAHENDRA applied for a patent titled “A SYSTEM AND METHOD FOR CROP HARVESTING”, with patent application number 202441074444. The patent was filed on 1st October 2024 and published on 4th October 2024.

Dr. DHANALAKSHMI R.(CCPS), Dr. SAHAYA BENI PRATHIBA(CCPS), Dr. RAJESH R.(SCOPE), SHIVAM THAKUR(SCOPE), AMAN KUMAR(SENSE), and AYUSH KUMAR DUBEY(SENSE) applied for a patent titled “A SYSTEM AND METHOD FACILITATING THE IDENTIFICATION OF EMOTIONAL MANIPULATION IN E-COMMERCE PLATFORMS”, with patent application number 202441074450. The patent was filed on 1st October 2024 and published on 4th October 2024.

POOJA S.(SENSE), V. ABINESH(SENSE), R. T. SURYA(SENSE), V. PRADHARSAN(SENSE), and Dr. P. ANANDAN from SCOPE applied for a patent titled “A SYSTEM AND METHOD FOR AUTOMATED ESTIMATION OF FARE FOR VEHICLES”, with patent application number 202441068357. The patent was filed on 26th August 2024 and published on 30th August 2024.

Devanathan, Vinod Vasan, Dr. Ilavarasi A. K.(51329), Dr. Sugumaran V.(50151), and Dr. Shyam Kumar B. from SMEC and SCOPE applied for a patent titled “A SYSTEM AND METHOD FACILITATING THE DETECTION AND PREVENTION OF MILK OVERFLOW”, with patent application number 202441058152. The patent was filed on 31st July 2024 and published on 9th August 2024.

Dr. U. VIGNESH and ADITYA KUMAR from SCOPE applied for a patent titled “A HYBRID VEHICLE WITH LONG RANGE MOBILITY”, with patent application number 202441061007. The patent was filed on 12th August 2024 and published on 16th August 2024.

Dr. KANCHANA DEVI V, Dr. E. UMAMAHESWARI, Dr. A. KARMEEL, and Dr. G. K. REVATHI from SCOPE and CCPS applied for a patent titled “IOT-BASED AQUARIUM WITH AUTOMATIC FOOD DISPENSING”, with patent application number 202341047250. The patent was filed on 13th July 2023 and published on 1st September 2023.

Dr. K. TAMILARASI, BHARA P UG, ADITHYA V UG, JEFFERSON DAVID KINGSTON UG, SANTHOSH UG, and ADITYA SAI SD UG from SCOPE applied for a patent titled “INTELLIGENT TRAFFIC MANAGEMENT SYSTEM”, with patent application number 202441075847. The patent was filed on 7th October 2024 and published on 18th October 2024.

Dr. M. POONKODI, Dr. PRABHA B (SCOPE), and Dr. LINDA JOSEPH (SCOPE) applied for a patent titled “A VOICE RECOGNITION SYSTEM WITH NOISE CANCELLATION AND THE METHOD EMPLOYED THEREOF”, with patent application number 202441077837. The patent was filed on 14th October 2024 and published on 25th October 2024.

Dr. SAHAYA BENI PRATHIBA, Dr. DHANALAKSHMI R, Dr. RRAJESH R, HENA SUNIL (PG), NAIMISHA PRASHANT (PG), YERAM VISHNUNITHYA (PG), SOUNDHARS (PG), AASHISH VINOD A (UG), VISHAL PRANAV A G (UG), and YESHWANTH G (UG) from SCOPE applied for a patent titled “A WEARABLE DEVICE FACILITATING PERSONAL SAFETY TO USERS AND THE METHOD THEREOF”, with patent application number 202441078698. The patent was filed on 16th October 2024 and published on 25th October 2024.

Dr. G. MALATHI and MR. ZEEL MEHTA (UG) from SCOPE applied for a patent titled “A FOOT-WEARABLE SYSTEM FACILITATING DETECTION OF NEURODEGENERATIVE DISEASES, AND THE METHOD THEREOF”, with patent application number 202441080379. The patent was filed on 22nd October 2024 and published on 25th October 2024.

Dr. KABILAN K, Dr. GEETHA S, Dr. BRAVEEN M, MR. VIGNESHKARTHIKEYAN S, MR. SANKAR RAJA, MR. SRINIVASA NARAYANAN A, MS. SRIVARSHINE S, VEAPPAN SM, and SAIKRISH SURESH from SCOPE applied for a patent titled “SYSTEM AND METHOD FACILITATING MANAGEMENT OF LIQUID AGENT LEVELS BY ANALYZING REAL-TIME PARAMETERS”, with patent application number 202441079988. The patent was filed on 21st October 2024 and published on 25th October 2024.

Dr. SANDHYA P, Dr. GANESAN R, Dr. RAMA PARVATHY L, MR. AMOGH SINGH (UG), MR. R. SRIVATS (UG), MR. KALYANASUNDARAM V (PG), MR. HARSHA JACKSON, MR. CHANAKYA BHARDWAJMUDUNURU, MS. HASHVARDHINE, MR. KAUSHIK S (UG), and MR. HARSH RAJ (PG) from SCOPE applied for a patent titled “SYSTEM AND METHOD FACILITATING TO TRACK AUTHENTICITY OF ORGANIC PRODUCE IN SUPPLY CHAIN”, with patent application number 202441081169. The patent was filed on 24th October 2024 and is currently in the "Filed" status.

Dr. Abdul Qudir MD and Dr. Vijayakumar Varadarajan from SCOPE were granted a patent titled “COMBINED PREFERENCE RANKING ALGORITHM FOR COMPARING AND INITIAL RANKING OF CLOUD SERVICES”, with patent application number 202141003744. The patent was filed on 28th January 2021 and granted on 9th October 2024, with the patent number 552113.

Dr. K. Madheswari filed a patent on 1st October 2024. The patent title is “ARLeaf: ARLeaf for Sustainable Environments and Enhanced Portability.”

Dr. V. Pandiyaraju filed a patent on 1st October 2024. The patent title is “Smart Luggage: Autonomous Suitcase with Webcam and GPS Module Integration.”

Dr. Ganesh Narayanan filed a patent on 1st October 2024. The patent title is “Fluxus: A Fall Prevention Detection System Using Accu-Haptic Feedback and SOS Alert Wearable for All Age Groups.”

Dr. Ganesh Narayanan filed another patent on 1st October 2024. The patent title is “EduFlex: Flexible Learning for a Dynamic World.”

Dr. R. Priyadarshini filed a patent on 1st October 2024. The patent title is “Advanced IoT Integrated Somnambulism Detection Socks with Alert System for Age-Independent Groups.”

Dr. D. Kavitha filed a patent on 1st October 2024. The title of the patent is “Mono-Depth Vision: Redefining 3D Scene Understanding with a Single Lens.”

Dr. Trilok Nath Pandey filed a patent on 8th October 2024. The patent title is “A Browser API to Provide Vectorized Search Queries from Search Engines to Websites to Improve Content Relevance.”

Dr. Sandhya P. filed a patent on 13th October 2024. The title of the patent is “Glove with Handwriting-to-Speech Interface.”

Dr. K. P. Vijayakumar filed a patent on 15th October 2024. The title of the patent is “Intelligent Refrigerator with Integrated Sensor Network, Predictive Recipe Recommendations, and Personalized User Interface.”

Dr. V. Muthumanikandan filed a patent on 16th October 2024. The title of the patent is “Plant Emotion Detector: A Sustainable IoT Solution for Green Spaces”.

Dr. G. Malathi filed a patent on 18th October 2024. The title of the patent is “P.E.A.C.E (Posture Estimation and Correction Exo) Jacket”.

Dr. K. Parkavi filed a patent on 18th October 2024. The title of the patent is “Enhancing Road Safety: Detection of Animals on Highways During Night”.

Dr. Rishikeshan C. A filed a patent on 18th October 2024. The title of the patent is “Smart Glasses with Context-Aware Planning and Environment-Aware Memory for Enhanced Visual Assistance for the Visually Impaired”.

Dr. Vignesh U filed a patent on 24th October 2024. The title of the patent is “Smart Agriculture System for Enhanced Crop Monitoring and Irrigation Management”.

Dr. Vignesh U filed another patent on 24th October 2024. The title of the patent is “Wearable Multi-Hazard Detection System Using FBAR Sensor Array and Machine Learning”.

Dr. V. Pandiyaraju filed a patent on 24th October 2024. The title of the patent is “Robotic Manipulator Arm with a Dual-End Effector for Autonomous Fire Fighting and Targeted Fire Suppression”.

Dr. D. Kavitha filed a patent on 27th October 2024. The title of the patent is “Book2Movie: A Cosine Similarity-Based Approach for Personalized Book-to-Movie Recommendations”.

Dr. V. Muthumanikandan filed a patent on 27th October 2024. The title of the patent is “Internet of Things Based Dog Entertainment and Feeding System”.

Dr. B V A N S S Prabhakar Rao submitted a patent proposal titled Intelligent System and Method to Detecting Quality Fabrics on 30th October 2024.

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1.

Yashwant Balaji (22BRS1007) secured 1st place and Rohit Vikas Kedar (22BCE1127) secured 2nd place in the National Level Coding Competition organized by Anna University in October 2024. The students were mentored by Dr. K. Tamilarasi.



2. Team Binary Bats' from VIT Chennai, secured 2nd position in the prestigious Intel GEN AI National Hackathon 2024, held on 4th and 5th of October at KPR Institute of Engineering and Technology, Coimbatore. The team was awarded a prize of Rs. 30,000 for their achievement. The team members include Akshat Majila (23BCE1091), Mishti Mattu (23BCE1067), Satyam Jha (23BCE1139). The team was mentored by Dr. Christopher Columbus C, Professor - SCOPE.



3. Team VIT-US from VIT Chennai, secured the 4th position in the prestigious Intel Gen AI Hackathon 2024, held on the 4th and 5th of October at KPR Institute of Engineering and Technology, Coimbatore. The team's project, KisanMadad: A Farmer's Companion, focused on utilizing AI and advanced technologies to develop innovative solutions for farmers. The team members were Nancy Saxena (21MIS1024), Aakarsh Mishra (21MIS1025), Ansh Pandey (21MIS1073), Utkarsh Mishra (21MIS1074).



G.K. Santhosh Ram (20BCE1091) successfully published his work titled "Visistant: A Conversational Chatbot for Natural Language to Visualizations With Gemini Large Language Models" in IEEE Access as an outcome of his Capstone project during the Winter Semester 2024. The student was guided by Dr. V. Muthumanikandan, Associate Professor - SCOPE. The publication is accessible via the following link: IEEE Access – October 2024. <https://ieeexplore.ieee.org/document/10685409?source=authoralert>

The work titled "State-of-the-Art of Voice Assistance Technology, Mitigating Replay Attacks: A Comprehensive Discussion" by Raina Saxena (21BCE5986), Sai Sahiti Rachiraju (21BCE5569), and Shashvi Shah (21BAI1656) has been published in IEEE in May 2024 as an outcome of their Capstone project during the Winter Semester 2024. The team was guided by Dr. S. Sandosh. The publication can be accessed via the following link: IEEE – May 2024. <https://ieeexplore.ieee.org/document/10511148>

The research paper titled "A Computational Study and Analysis of Variational Quantum Eigensolver over Multiple Parameters for Molecules and Ions" authored by Ashwin Sivakumar (21BLC1296), Harishankar K Nair (22BLC124), Aurum Joshi (22BLC1382), Kenson Wesley (19BEC1075), and Akash P Videsh (21BAI1296), and guided by Dr. Reena Monica P, was published on October 28th in the Springer journal EPJ Quantum Technology with an impact factor of 5.8. The paper is available at [EPJ Quantum Technology](#).

Two teams from SCOPE have secured third place in the prestigious Global Pervasive AMD AI Developer Contest, with the winners announced in San Francisco, USA. Both teams were fully sponsored by AMD for their trip to the US and have each won a prize of lakhs



Team 1
Project Title: AudioVision
Team Members: Pranjal
Mishra (21BCE5088), Ishaan
Sharma (21BCE5019),
Mohammad Abbas
(21BCE1717)



Team 2
Project Title: Colourizing
Sequential Content - ColorNet
Team Members: Shyam
Venkatraman (22MIS1031),
Akhil Prabananth
(22BCE1312), Snehil
Chatterjee (22BCE5237)

The teams were facilitated by Dr. Kanthimathi S, SCOPE.

Govardhan A. R. (23BCE1771) and Sourabh Pramod (23BCE1778) secured the Runner-Up position at the Fetch.ai Hackathon held during Techniche '24 at IIT Guwahati.



Mr. Neelam Samrat S (21BAI1498) won the Gold Medal in the Rink 5 (500m + D) and Rink 6 (1000m) events, and the Silver Medal in the Rink 7 (Dual TT) event, held in Puducherry from 18th to 21st October 2024. Additionally, he has been selected to represent the Tamil Nadu team in the National Championship, which will be held in Mysore in December 2024.





The project work of our student Pradheep. J (21BRS1018) from SCOPE has been published as an Indian patent on 04th October 2024. The patent is titled Autonomous Robot for Floor Cleaning, featuring a modular design with a triangle base unit that can be assembled into six distinct configurations: snake, hexagon, chevron, bar rhomboid, crook club, and hook shoe. Each configuration consists of six connected triangles, offering a flexible and effective floor cleaning solution with an emphasis on sensor functionality, modular attachments, and ease of reconfiguration. The faculty mentors for this project are Dr. Anita Christaline. J, Associate Professor (SCOPE), and Dr. Prem Sankar. N, Assistant Professor, Senior Grade (SCOPE).

Our B.Tech students received the Best Paper Award for their paper presentation at the International Conference on Advancements in Smart Computing and Information Security (ASCIS 2024), held at Marwadi University, Rajkot, Gujarat, from October 16 to October 18, 2024. The paper, titled "VANET Security through Blockchain-based Location Verification: Innovation and Challenges," was presented by the following team members: Thriam Bakesvar B (21BRS1528), Subash Saajan J (21BRS1532), Eniyavasanthan R (21BRS1260). The team was mentored by Dr. Sandosh S, Assistant Professor, SCOPE.



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The work titled "A Novel Self-Attention-Enabled Weighted Ensemble-Based Convolutional Neural Network Framework for Distributed Denial of Service Attack Classification" by our students has been published in IEEE Access as part of the mini project outcome during the Winter Semester 2024. The team members involved are: Shravan Venkatraman (21BCE1200), K S Jayasankar (21BCE1290), T Pranay Jiljith (21BCE1476), R Jashwanth (21BCE1206). The project was guided by Dr. Kanthimathi S, SCOPE.

VIT Chennai Basketball Men Team Players Secure Runner up Position in IIT Madras Sports Fest Inter Collegiate Invitation Basketball Tournament – October 2024.

S. No Name of the player Reg no



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Krishna Pranav Sarvepalli (23BCE1382) has been awarded the Bronze medal along with a cash prize of Rs. 50,000 at the CM Trophy State-Level Swimming Tournament, which took place at SDAT Velachery on 22nd October 2024.





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Deepthi B (21BCE5601) attended the GitHub Universe 2024 conference in San Francisco, California, USA, from October 27-30, 2024. The opportunity was fully sponsored by Microsoft and GitHub, covering her travel, accommodation, and conference passes.





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A student seminar was conducted by R Srivats titled “Maximizing Efficiency in large language models: The engineering and math of quantisation” with Dr. M. Poonkodi as the coordinator on 4th October 2024.



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A student seminar series was conducted by Gracil Parag Unadkat titled “An introduction to retrieval Augmented Generation and Information retrieval” with Dr. M. Poonkodi as the coordinator on 11th October 2024.



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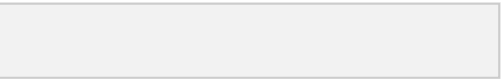
Scope newsletter team

We have come to the end of the newsletter for October, 2024. We reviewed the events that took place in the entire month, starting from the thon-events, workshops, and patents filed, organization interactions, project proposals, followed by a description of academic events. We also reviewed the department meetings, guest lectures, webinars, viva-voce, conferences, synopses and startup conclaves. We presented the publications done by the student and faculties of SCOPE in October. We showcased some achievements made by students of SCOPE in outside competitions. We want to thank all the faculty coordinators for guiding us and providing us the resources on time to deliver quality content. We want to thank the Dean and Associate Dean of SCOPE, who supported and guided us in the process. We thank all our patrons for enabling an efficacious environment where we can thrive and create new and exciting innovations.

Sincerely,
The SCOPE Newsletter Team

Faculty Coordinator: Dr. Renuka Devi R

Editor in chief : Vaibhav Divakarla
(22BPS1032)



Bharat i R

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