

AVIT CSE

INSIGHT

July 2025 | Volume 1 | Issue 3



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY




**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)

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E-NEWSLETTER

**DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING**



Achievements Summary - July 2025

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Department Events

The CSE Department organizes FDPs, workshops, and industrial visits to promote continuous learning and industry engagement. These events enhance faculty expertise and student skills in emerging technologies. Such initiatives help to produce industry-ready graduates equipped for innovation in a dynamic tech landscape.

Two-Days Hands-on Training on Building XR Apps 29th and 30th July 2025.



AVIT
ARADHANNA VEDIC INSTITUTE OF TECHNOLOGY
Vinayaka Missions Chennai Campus





Cordially invites you all for the

Two-day Hands-on Training on

Building XR Apps



PRAYAS LABS

Resource Person

Mr. Ashokkumar Manisekaran

Entrepreneur | Founder, Developer & Educator at Praya Labs
Director | Founder - Funobotz Paper Robotics Pvt. Ltd.(Startup)
Tiruvannamalai, Tamil Nadu, India



29th & 30th July 2025

 **09:30 AM to 3:30 PM**

 **Intel Lab**

Organized by

Department of Computer Science & Engineering and
XR Spectra Club



VINAYAKA MISSION'S
RESEARCH FOUNDATION

Dedicated to the development and welfare of the Indian Youth



AACC
A COMMITMENT
TO EXCELLENCE



IEEE
INSTITUTE OF ELECTRICAL
& ELECTRONICS ENGINEERS

The Department of CSE and XR Spectra Club conducted a two-day hands-on training on **"Building XR Apps"** on 29th & 30th July 2025.

Recourse Person

Mr. Ashokkumar Manisekaran
Entrepreneur | Educator | XR Developer
Founder, Praya Labs
Director & Founder, Funobotz Paper
Robotics Pvt. Ltd. (Startup)
Tiruvannamalai, Tamil Nadu, India.

This workshop provided students with valuable practical exposure to Extended Reality (XR) development. Participants gained insights into real-world XR applications and the tools used in designing immersive digital experiences. The event greatly enhanced the skills of aspiring developers.



Throughout these two days, participants engaged in real-time development of AR-based mobile applications and VR games using industry-relevant tools. The sessions emphasized experiential learning, problem-solving, and creativity in XR environments.



Outcomes

Hands-on Experience: Students gained practical skills in developing XR (Extended Reality) applications using industry-relevant tools.



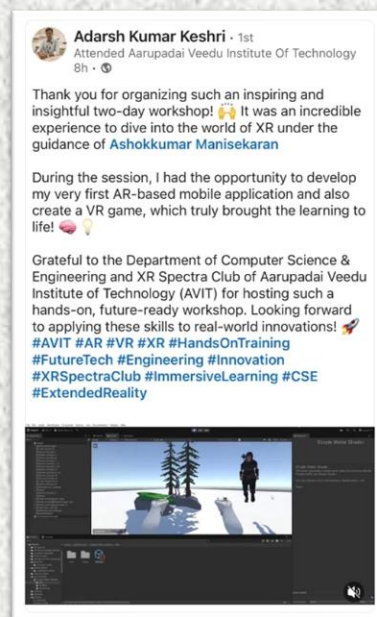
Exposure to Emerging Technology: Participants were introduced to the growing field of XR, which includes Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR).

Feedback from students

Participants explored the exciting realms of Augmented Reality (AR) and Virtual Reality (VR) through interactive, real-time development sessions. **One of the enthusiastic attendees, Mr. Adarsh Kumar Keshri, shared:**

"It was an incredible experience to dive into the world of XR. I developed my first AR-based mobile application and created a VR game – which truly brought the learning to life!"

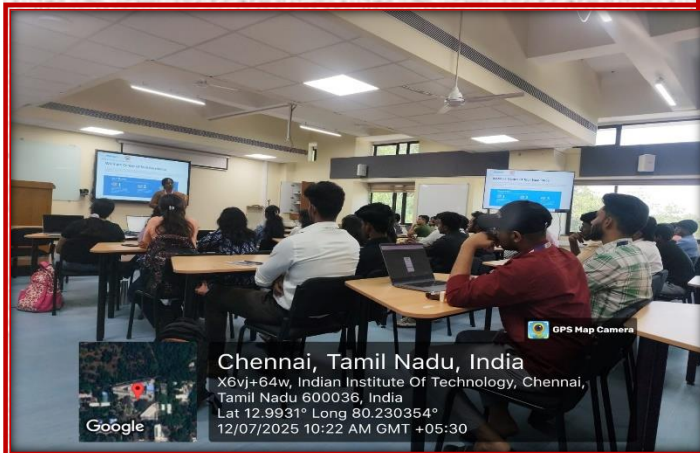
This workshop provided students with an industry-relevant skillset in immersive technologies, laying the foundation for future innovations in Extended Reality.



Industrial Visit

Empowering Future Technologists: Workshop on Mango Platform Development by Walmart Centre for Excellence at IIT Madras- July 12th, 2025.

The Walmart Centre for Excellence organized a one-day Mango Platform Development **workshop at IIT Madras**, where **31 students** actively participated. **Dr. Kavitha**, Post-Doctoral Fellow from Walmart, led the session with hands-on training and expert insights.



The key objectives of the workshop:

- Introduce the Mango platform.
- Familiarize participants with the core architecture.
- Provide practical, hands-on experience through real-world use cases to enhance student understanding and engagement.

Feedback and Outcomes

- **Participants expressed strong satisfaction** with the interactive, hands-on approach of the workshop sessions.
- **Students gained valuable insights** into industry-relevant platforms and were motivated to explore the Mango platform for academic and research-based projects.
- The workshop **inspired interest in leveraging open-source platforms** for final year projects and internship opportunities.
- **Certificates of participation were awarded** to all attendees, acknowledging their active involvement.

Placement Orientation & Career Guidance on July 5th, 2025 Mini Auditorium, Avit, Chennai.



The Placement Orientation and Career Guidance session began with a motivating address by **Dr. S. Balakrishnan**, Head of the Department. He delivered an inspiring address, urging students to make the most of placement opportunities and assuring the department's continued support for their career growth.

This was followed by an engaging session by **Mr. B. S. Seshadri**, Professor of Practice, who delivered an insightful talk on "**Placement Orientation.**" Using an interactive Mentimeter-based questionnaire, he assessed the students' expectations and current level of preparedness.

The training sessions focused on enhancing core placement skills in the following areas:

- Quantitative Aptitude
- Analytical and Logical Reasoning
- Programming & Bug Fixing – Basic Level
- Advanced Programming Skills
- In-person Interview Techniques
- Instant Feedback and Performance Evaluation

**Student Achievements in Co-Curricular Activities (Placement/
Internship/ Hackathon/ Certificate of Excellence)**

Department of Computer Engineering students demonstrated outstanding skills and enthusiasm across a range of co-curricular activities, achieving notable success in various forums. These accomplishments reflect their dedication, creativity, and the dynamic spirit of our student community, making us proud ambassadors of holistic education.

Placement

Mr. Harshavarthan, 2025 Batch B.E. (CSE - AI & DS) student, secured a placement at Amazon.

Mr. Harshavarthan, Final-year student of B.E. (CSE - AI & DS) has secured a prestigious placement at Amazon as an Associate, Quality Services (QS). This achievement reflects the excellence of our students and the strength of our industry-aligned curriculum.

Congratulations, Harshavarthan, on this incredible milestone!



Internship

Mr. Vignesh N and Ms. Archana Shakyha has successfully completed their internship in Python Development at Ilan Tech Solutions Pvt. June 2-28,2025.



Mr. Vignesh N and Ms. Archana Shakyha successfully completed their internship in Python Development at **Ilan Tech Solutions Pvt. Ltd.** from **2nd to 28th June 2025.**

During internship, they have gained hands-on experience by demonstrated proficiency in Python, SQL, and PL/SQL.

Mr. Palamkar Neeraj Kumar Participated in the Internship Common Aptitude Test at (iCAT) held on 30th June 2025.

Mr. Palamkar Neeraj Kumar has been awarded a Certificate of Participation for successfully taking part in the Internship Common Aptitude Test (iCAT) held on 30th June 2025.



Certificate of Excellence

Students have successfully completed various online certification courses, demonstrating their initiative and commitment to continuous learning. These achievements reflect their dedication to enhancing technical skills beyond the classroom.

Mr. Palamkar Neeraj Kumar has successfully completed the various online courses during July 2025.

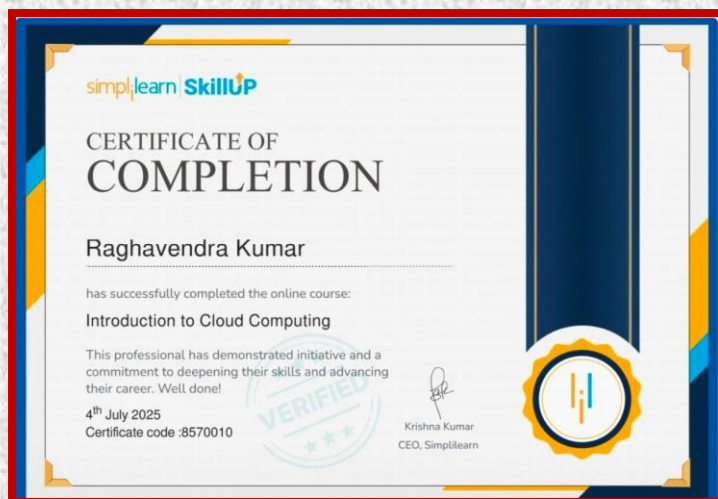
- "Introduction to Generative AI Studio" on July 2nd, 2025



- PowerBI Workshop by OfficeMaster on July 6th, 2025,

- AI Tools and ChatGPT Workshop by be10x on June 29th, 2025





Mr.Raghavendra Kumar successfully completed the **"Introduction to Cloud Computing"** course by Simplilearn SkillUp on 4th July 2025. The certification highlights his foundational knowledge in cloud technologies.

Mr.Abhishek Kumar, successfully completing the **HP LIFE Online Course on Effective Leadership** on **July 11, 2025**.



Mr. Mekapothula Yoga Sai completed the **ESG (Environmental, Social, and Governance) Job Simulation** offered by Tata in collaboration with Forage on **July 16, 2025**. This virtual experience gave him valuable exposure to key ESG responsibilities and deepened his

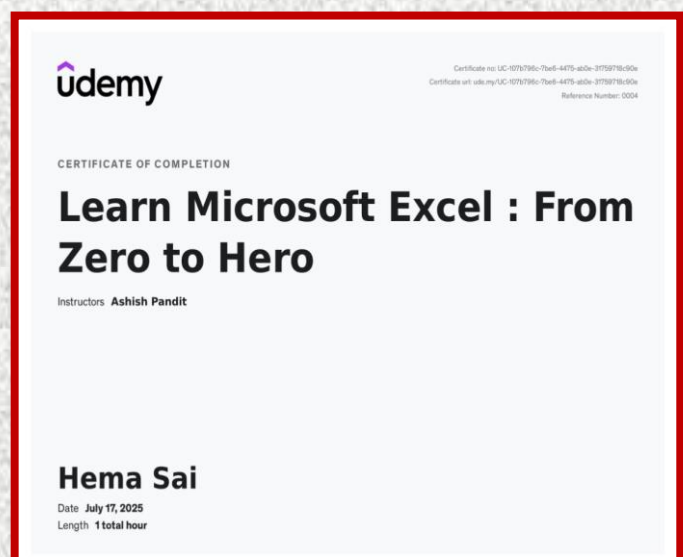
understanding of sustainability's role in modern business environments.

Mr. Abhiram Madasu completed the course **"Learn Microsoft Excel: From Zero to Hero"** on **July 17, 2025**. Instructed by Ashish Pandit on Udemy, the course equipped him with essential Excel skills to manage data efficiently and effectively



Mr. Sameer Khan completed the **TCS iON Career Edge - Young Professional** course from **June 17 to July 17, 2025**, gaining essential workplace skills across communication, soft skills, IT, and business fundamentals.

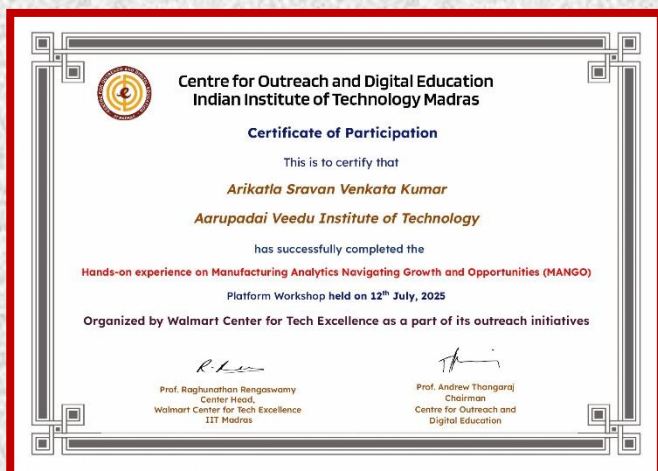
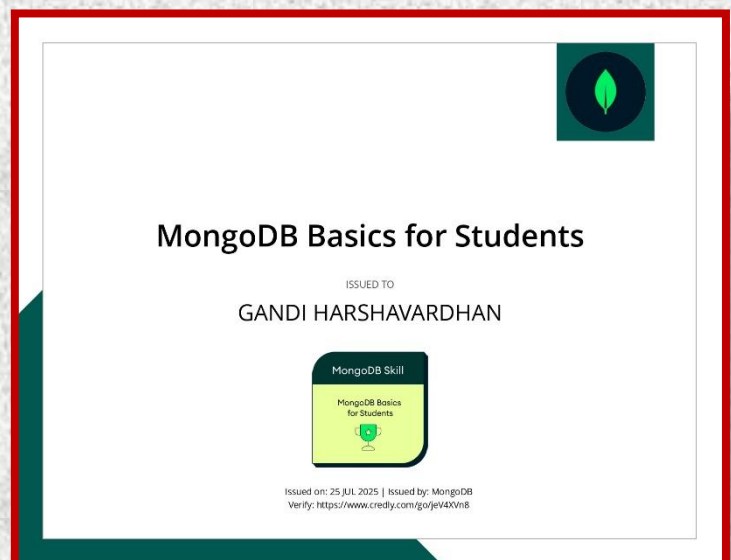
Mr. Hema Sai has successfully completed the **"Learn Microsoft Excel: From Zero to Hero"** course on Udemy. This course provided hands-on training in key Excel functionalities, empowering learners to: Master formulas and functions Work with data tables, charts, and pivot tables Improve productivity with shortcuts and tools analyze and visualize data efficiently, on 17th July 2025.





Mr. Fayaz Syed successfully completed the **Defronix Ethical Hacker Essential (DEHE)** program on **20th June 2025**, gaining foundational skills in ethical hacking and cybersecurity. This certification highlights his dedication to learning and growth in the digital security domain.

Mr. Gandhi Harshavardhan earned the **“MongoDB Basics for Students”** certification from MongoDB on **25th July 2025**, demonstrating his foundational knowledge in NoSQL databases.



The Walmart Centre for Excellence organized a one-day Mango Platform Development **workshop at IIT Madras**, where **31 students** actively participated. **Dr. Kavitha**, Post-Doctoral Fellow from Walmart, led the session with hands-on training and expert insights.

Sl.No.	Name of the Student
1.	T Manasa
2.	Pritam Kumar
3.	Divyanjali Nagella
4.	Vanshika Naga
5.	S.Haranadh Venkata Sai
6.	Velpula Hemeswar Sai Yadav
7.	Nalliboina Nagendra Babu
8.	G.Sasi Kumar
9.	Syed Sameer
10.	Sambari Rahul
11.	Madi kiran kumar
12.	M Sri Sai Karthick
13.	Yeruva Srihanth Reddy
14.	K Sai Bharath
15.	K.Sai Sarath Chandra Naidu
16.	Sudrti pal
17.	Yuvraj Sonar
18.	Suraj kumar
19.	Puchalapalli bharadwajasai
20.	A Madhu Shekhar
21.	S.Durga Prasad
22.	Alapati.Naga Satya Srinivas
23.	Abel Shibu Kulathumkal
24.	M.Sai Krishna
25.	Thuraka Chandu
26.	S.Vishal
27.	Ch Nikhil
28.	Gummireddy Charani Sireesha
29.	Joylin Rolands Nadar
30.	Arikatla Sravan Venkata Kumar
31.	Lohith Kumar

**Students participated in the National Students Paryavaran Competition (NSPC)
organized by Government of India on July 21st, 2025.**

Totally 9 students participated in the **National Students Paryavaran Competition (NSPC) 2025**, organized by the Ministry of Education and the Ministry of Environment, Forest & Climate Change, Government of India. This prestigious competition aims to raise environmental awareness and encourage student engagement in sustainability efforts. Congratulations to all the students for their active involvement and contribution toward a greener future!

- Mr. Md Akif
- Mr. KUNA SAI
- Mr. Zafar Ahamad
- Mr. Rajnish Kumar
- Mr. Avula Remanth Reddy
- Mr. Gandhi Harsha Vardhan
- Ms. Hema Vardhan
- Gandikota
- Ms. Kanimozhi E
- Ms. Lavanya V



Mr. Avula Remanth Reddy successfully completed the **Microsoft Excel Using AI Workshop** by OfficeMaster on **July 30, 2025**. He gained hands-on expertise in using 200+ Excel formulas with AI, creating dashboards in under two minutes, and applying Macros and VBA

through AI—showcasing his drive to master modern productivity tools.

Faculty Achievements

Faculty Achievements

Our faculty members consistently demonstrate excellence by earning honors and awards at national and international platforms. Their impactful contributions to research and knowledge advancement have received widespread recognition. These accomplishments reflect both their expertise and our institution's strong commitment to academic excellence and innovation.

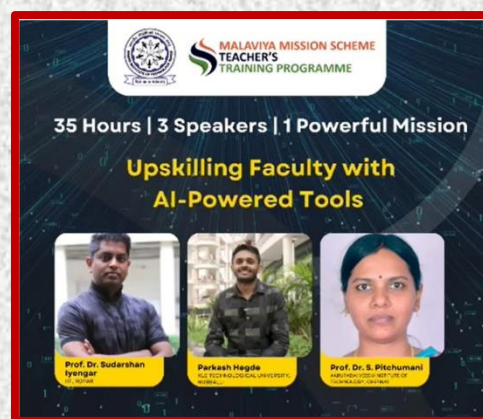
Resource Person

Dr.S.Balakrishnan has acted as Guest Speaker for the SAHS Youth Confluence 2025, jointly organized by the School of Allied Health Sciences (SAHS), Youth Club, and National Service Scheme (NSS) at Vinayaka Mission's Research Foundation – Deemed to be University (VMRF-DU), Chennai Campus on **18th July 2025** at SAHS, VMRF-DU Chennai Campus, **Theme: Youth Empowerment through AI and Digital Skills.**



Dr. M. Muthukumaran served as the Keynote Speaker for the **Five-Day Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)**. The program was organized by the Department of Integrated Research & Discovery at Koneru Lakshmaiah Education Foundation, Andhra Pradesh, from **07th – 11th July 2025**.

Dr. S. Pitchumani Angayarkanni Delivered an expert session on “AI in Research” as part of the MMTTP Faculty Development Programme (Cohort 5), organized by IIT Ropar, on 17th July 2025.

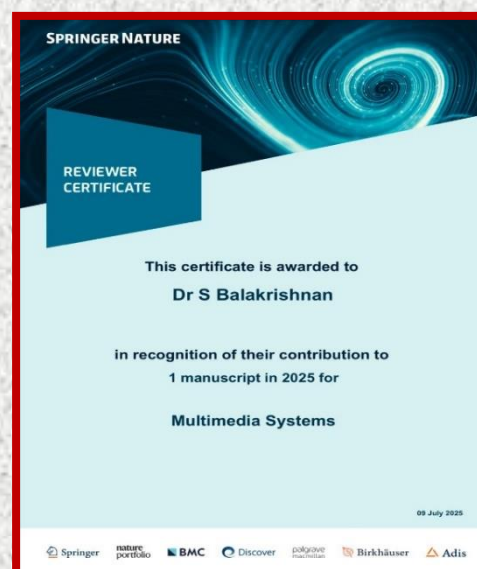


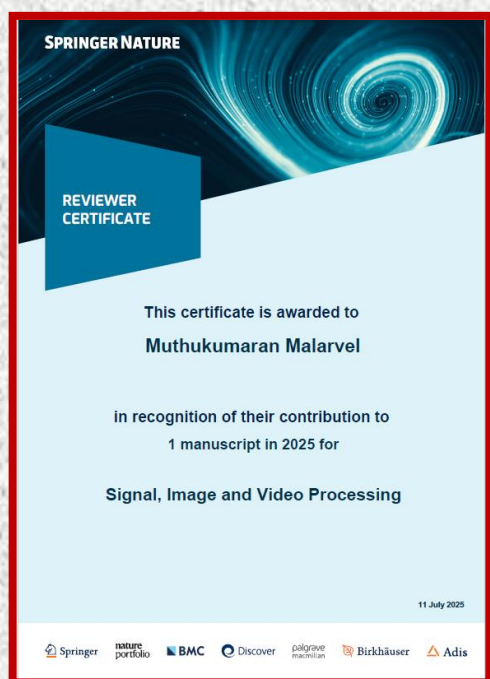
Journal Review



Dr.S.Balakrishnan, has acted as peer reviewer for a promising book proposal that explores the convergence of Multiagent Systems (MAS) and Wearable Technologies for the Title: **Multiagent Systems and Wearables: Foundations, Technologies, and Applications** under the Publisher: CRC Press, Taylor & Francis Group in the month of July 2025.

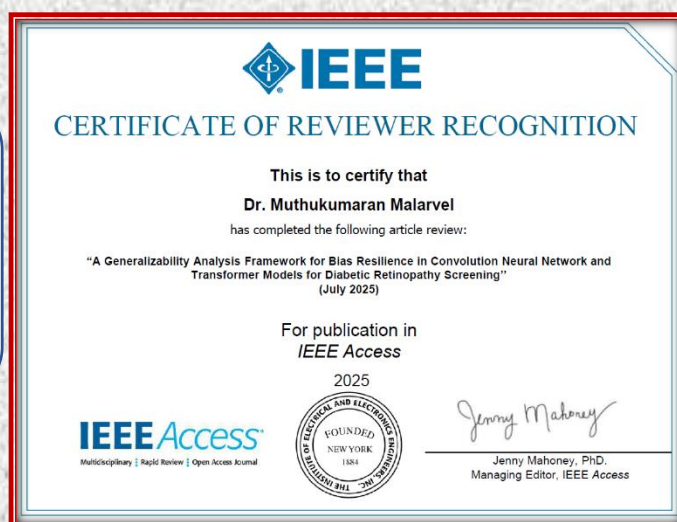
Dr. S. Balakrishnan received a **Reviewer Certificate** from **Springer Nature** for reviewing a manuscript for the journal *Multimedia Systems* in July 2025. This recognition highlights his expertise and dedication to academic research and integrity.





Dr Muthukumaran M Served as a Reviewer for Signal, Image and Video Processing, a highly reputed journal published by the Springer Nature in July 2025.

Dr Muthukumaran M Served as a Reviewer for IEEE Access, a highly reputed multidisciplinary, open-access journal published by the IEEE in July 2025.



Dr.S. Pitchumani Angayarkanni served as a peer reviewer for the journal Engineering Applications of Artificial Intelligence (Elsevier) and received a Certificate of Reviewing in recognition of the contribution in July 2025.

Journal Publications

Dr. S. Balakrishnan, along with co-authors, published a research article titled **“Enhancing 5G Networks Performance Using MIMO and MU-MIMO Technologies for High-Capacity Communication”** in *Internet Technology Letters* by Wiley Online Library in July 2025.

WILEY
Online Library

Internet Technology Letters / Volume 8, Issue 4 / e70069
SPECIAL ISSUE ARTICLE

Enhancing 5G Networks Performance Using MIMO and MU-MIMO Technologies for High-Capacity Communication

P. Ashok✉, D. Sumathi, Krishnaraj Natarajan, S. Balakrishnan

First published: 07 July 2025
<https://doi.org/10.1002/itl2.70069>

Read the full text > | About

ABSTRACT
In order to accommodate the exponential growth of data-intensive apps and linked devices in the current era, the next generation of wireless networks must offer extraordinarily high speeds, great connection, and low latency. Two of the most significant advanced technologies fifth-generation (5G) networks use to fulfill these goals are multiple-input multiple-objects (MIMO) and multiuser MIMO (MU-MIMO). The main emphasis

Int Ophthalmol (2025) 45:266
<https://doi.org/10.1007/s10970-025-05802-6>

ORIGINAL PAPER

Advanced glaucoma disease segmentation and classification with grey wolf optimized U-Net++ and capsule networks

I. Govindharaj · W. Deva Priya ·
K. I. S. Soujanya · K. P. Senthikumar ·
K. Shantha Shalini · S. Ravichandran

Received: 8 March 2025 / Accepted: 15 May 2025
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Abstract

Purpose To develop an advanced automated glaucoma diagnostic system by integrating an optimized U-Net++ segmentation model with a Capsule Network (CapsNet) classifier, enhanced through Grey Wolf Optimization Algorithm (GWOA), for precise segmentation of optic disc and cup regions and accurate glaucoma classification from retinal fundus images.

Methods This study proposes a two-phase computer-assisted diagnosis (CAD) framework. In the segmentation phase, an enhanced U-Net++ model, optimized by GWOA, is employed to accurately delineate the optic disc and cup regions in fundus images. The optimization dynamically tunes hyperparameters based on grey wolf hunting behavior for improved segmentation precision. In the classification

phase, a CapsNet architecture is used to maintain spatial hierarchies and effectively classify images as glaucomatous or normal based on segmented outputs. The performance of the proposed model was validated using the ORIGA retinal fundus image dataset, and evaluated against conventional approaches.

Results The proposed GWOA-U-Net++ and CapsNet framework achieved a segmentation and classification accuracy of 95.1%, outperforming existing benchmark models such as MTA-CS, ResFPN-Net, DAGCN, MRSNet and ADCT. The model demonstrated robustness against image irregularities, including variations in optic disc size and fundus image quality, and showed superior performance across accuracy, sensitivity, specificity, precision, and F1-score metrics.

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Published online: 27 June 2025



Dr.K.Shantha Shalini, published a paper titled **“Advanced glaucoma disease segmentation and classification with grey wolf optimized U-Net++ and capsule networks”** in the *International Ophthalmology journal* in June 2025.

Dr. M. Rajesh, along with co-authors, published a research article titled “Edge Cloud IoT Model Based Marine Life Analysis Using Machine Learning Algorithms” in Journal of Intelligent Systems and Internet of Things in July 2025.

Edge Cloud IoT Model Based Marine Life Analysis Using Machine Learning Algorithms

Gagan Kumar Koduru ^{1*}, S. Kalaimagal ², M. Srilakshmi Preethi ³, G. L. Narasamba Vanguri ⁴, Shivanadhuni Spandana ⁵, M. Syed Rabiya ⁶, M. Rajesh ⁷

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Doi: <https://doi.org/10.54216/JISIoT.180117>

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Cloud IoT with Remote Sensing Data Segmentation and Classification Using Deep Learning Model for Sustainable Agriculture

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Dr.M.Rajesh along with Co-authors published a research article titled on “Cloud IoT with Remote Sensing Data Segmentation and Classification Using Deep Learning Model for Sustainable Agriculture in Journal of Intelligent Systems and Internet of Things in July 2025.

Dr.M.Rajesh along with Co-authors published a research article titled on “Machine Learning Model Based Urban Temperature Analysis with Fuzzy Reinforcement Neural Network” in in Journal of Intelligent Systems and Internet of Things in July 2025.

Machine Learning Model Based Urban Temperature Analysis with Fuzzy Reinforcement Neural Network

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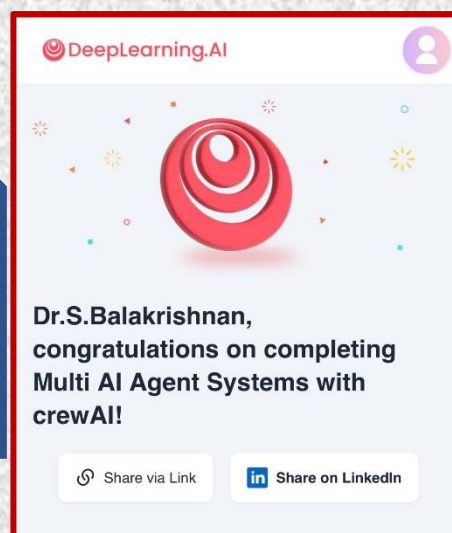
⁷ Department of Computer Science and Engineering, Aarupadai Veedu Institute of Technology, Vinayaka Mission's Research Foundation (DU), Tamilnadu, India - (rajesmano@gmail.com)

Doi: <https://doi.org/10.54216/JISIoT.180122>

Received: March 19, 2025 Revised: June 08, 2025 Accepted: July 13, 2025

Certificate of Excellence

Dr.S.Balakrishnan Professor and Head of the CSE Department, has completed the online course on "Multi-Agent Systems with CrewAI" course by DeepLearning.AI in July 2025.



Ms. Thara P on successfully completing the educational webinar titled "Editor Communication is the Key to Successful Publishing in High-Impact Journals" organized by LetPub Learning Nexus on July 24, 2025.

Mrs. P. Thara successfully participated in a 40-hour Online Faculty Development Program on "Building with LLMs: Tools, Techniques, and Applications". The FDP was sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, and organized by Electronics & ICT Academy, NIT Warangal, in association with ABV-IIITM Gwalior, from 20th to 29th June 2025.





Dr. Poonguzhali S, Professor, CSE, AVIT has successfully completed the Hands-on experience on Manufacturing Analytics Navigating Growth and Opportunities (MANGO) Platform Workshop held on 12th July, 2025 Organized by Walmart Center for Tech Excellence as a part of its outreach initiative.

Mrs. Priyadharshini.J successfully participated in a 40-hour Online Faculty Development Program on “Building with LLMs: Tools, Techniques, and Applications”. The FDP was sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, and organized by Electronics & ICT Academy, NIT Warangal, in association with ABV-IIITM Gwalior, from 20th to 29th June 2025.



Dr. Gino Shophia successfully participated in a 40-hour Online Faculty Development Program on “Building with LLMs: Tools, Techniques, and Applications”. The FDP was sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, and organized by Electronics & ICT Academy, NIT Warangal, in association with ABV-IIITM Gwalior, from 20th to 29th June 2025.

**“The best way to predict the
future is to invent it.”
– Alan Kay.**